

**Lake Champlain Basin Science Center, Inc.**  
**d/b/a ECHO at the Leahy Center for Lake Champlain**  
**EPA 2007 Work Plan**  
**September 2007**

**INTRODUCTION**

ECHO at the Leahy Center for Lake Champlain is an innovative lake aquarium and science center committed to educating residents and visitors about the ecology, culture, history and opportunities for stewardship of the Lake Champlain Basin. Since opening in 2003, this 28,500 square-foot facility located on the Waterfront in Burlington, Vermont has served approximately 130,000 visitors each year and has become a favorite destination for school children and visitors of all ages.

ECHO's goal is to help all residents of the Basin understand the crucial importance of the quality of the environment in which they live and the role they can play in its protection. Through this education process, ECHO will support the *Opportunities for Action* (OFA) that are part of the Lake Champlain Basin Management Plan which was developed to protect the future of Lake Champlain. As stated in the OFA:

"The cumulative results of many individual actions make a difference in the complex issues facing the Lake Champlain Basin. Individual responsibility in protecting a shared resource is very important; people must become aware of how they contribute to pollution before they can take responsible actions to reduce and prevent it. When people are given the opportunity to develop awareness, knowledge, skills, and commitment towards a Basin issue, they can make informed decisions and take constructive actions. When people know how they can make a difference, they will."

Through more than 100 interactive exhibits, 60 species of fish, reptiles and amphibians, major changing exhibits, classrooms and a lecture hall, ECHO encourages visitors to view the natural environment as part of their neighborhood and to explore, learn about and consider opportunities for stewardship. Once people understand that we all live "upstream or downstream" from one another, they can take action to improve the future health of the Lake Champlain Basin.

**WORKPLAN SUMMARY**

The EPA 2007 award will provide funding to continue and improve upon three major goals supported by last year's award:

- Broaden ECHO's reach to a greater number of individuals through the continuation and expansion of ECHO's Open Door, a broad-based access program that uses community partnerships and special pricing to make ECHO more accessible to Basin residents.



- Generate an engaging and educational experience through “ECHO Encounters” – crafts, games, experiments and demonstrations led by volunteers and staff. The primary goal of “ECHO Encounters” is to provide personal opportunities for dialogue and to create a comfortable, welcoming experience for ECHO guests of all ages.
- Support the Lake Champlain Basin Management Plan’s *Opportunities for Action* by educating guests about the issues that face the Basin, with particular emphasis on the Plan’s four priorities:
  1. Reduce phosphorus inputs to Lake Champlain to promote a healthy and diverse ecosystem and provide for sustainable human use and enjoyment of the Lake.
  2. Reduce toxic contamination to protect public health and the Lake Champlain ecosystem.
  3. Minimize the risks to humans from water-related health hazards in the Lake Champlain Basin.
  4. Control the introduction, spread, and impact of nonnative nuisance species in order to preserve the integrity of the Lake Champlain ecosystem.

ECHO will continue to work towards accomplishing these goals primarily through the following programs:

## **PROGRAM DESCRIPTIONS**

### **ECHO’s Open Door Access Program**

ECHO’s Open Door Access Program, launched in the fall of 2005, includes a broad spectrum of programs designed to reduce the cultural, financial and geographic barriers that exist and prevent potential guests from visiting ECHO. Developed in collaboration with various community partners, this multi-faceted access program has met with great success and continues to grow. Our community partners have encouraged us to continue all aspects of the ECHO Open Door program. The following summarizes the components of the program.

#### ***ECHO Access for Social Service Organizations***

##### **Program Summary:**

Continue to distribute discount admission vouchers through regional social service agency partners to youth, senior citizens, people with disabilities, and low income community members. Working with agencies that have a strong and trusted relationship with these constituencies enhances visitor comfort level and encourages them to experience a place that they might not otherwise visit. Organizations wishing to be part of ECHO’s Open Door Access Program are evaluated for program fit. Each agency completes a partnership assessment which allows ECHO to better understand the



organization's mission and client needs and to train our staff and volunteers on how to welcome guests and interpret exhibits to maximize their comfort level. Clients often visit ECHO in peer groups accompanied by familiar agency staff or individually with their own mentors. Agencies can assess the needs of their constituents and use the vouchers accordingly either distributing them to individuals who visit ECHO on their own or using them for planned group visits. See **Attachment II** for a listing of social service agencies involved in ECHO's Open Door Access Program.

**Program Details:**

Continue the "You Give/We Give" Annual Pass matching gift program: for every Annual Pass purchased during the 2007 November/December holiday season, ECHO will donate one Annual Pass to a social service agency that participates in ECHO's Open Door Access Program. The social service agencies will present the passes directly to their clients. Based on last year's results, we expect to distribute up to 250 Annual Passes.

***Library ECHO Pass Program***

**Program Summary:**

In the Lake Champlain Basin, there are approximately 575 libraries serving the residents of the region. This component of the access program serves Basin library patrons by offering day passes to each local library at no cost. Patrons, who check out a pass, like they would a book, can visit ECHO for the significantly reduced admission price of \$2 per person. The program was developed in partnership with the Vermont Department of Libraries and the Vermont Libraries Association who have helped to announce and publicize it to libraries throughout the Basin. The Library ECHO Pass Program has been enormously successful, with passes being used on almost a daily basis by residents from nearby Chittenden County to Newport, Vermont to Saranac, New York. See **Attachment III** for a listing of libraries that have had patrons visit ECHO under its Library ECHO Pass Program.

***ECHO School Ambassador Program***

**Program Summary:**

Vermont and New York educators receive free daily admission to ECHO. Teachers who serve as a School Ambassador — the liaison between ECHO and their school — receive additional benefits. The School Ambassadors are a key component of successful school programming at ECHO. They disseminate information about ECHO's class programs, upcoming exhibits, special events, teacher training, links to science grade expectations and group discounts. In this role, they are the voice of ECHO during staff or PTO meetings when field trip opportunities are discussed. They are generally well versed in ECHO programs and can assist teachers in selecting an appropriate class, suggest self-guided activities, and support logistics planning by explaining in person how ECHO operates from parking, to check-in, to lunch-time to departure. Essentially, the ECHO School Ambassador is a coach and a contact that will help improve the quality of and participation in ECHO programs.

**Program Details:**

Distribute 300 Annual Passes to ECHO School Ambassadors. Each pass has a \$90 value and is good for up to two adults and two children. The pass provides unlimited admission to ECHO and over 280 other science centers, invitations to all ECHO exhibit pre-opening events and advanced information about ECHO programs and exhibits.

***Mentoring Collaboration Program*****Program Summary:**

ECHO is collaborating with MOBIUS Mentoring, Inc. to reach disadvantaged children throughout Chittenden County. Started in 2000 because of soaring school drop-out and heroin use rates in Burlington and neighboring Winooski, area community leaders launched Mobius Mentoring, Inc. as a mentor training, funding and support network to improve outcomes for youth in Chittenden County. ECHO participates in the Mobius Card program that offers discounts to many area activities for mentors and their mentees.

According to MOBIUS Mentoring, the discounted admission to ECHO helps them attract mentors because it offers fun and educational activities that they can share with their mentees at a reasonable cost. Their feedback to date is that we simplify the program by charging both mentors and mentees a \$2 admission fee similar to the social service agency vouchers. (Currently, mentees receive free admission when accompanied by a paying mentor.)

**Program Details:**

Offer three annual visits at the significantly reduced admission price of \$2 to up to 50 mentors and their mentees.

The components described above will supplement the following activities that are already in place and that are not part of this work plan:

**1. Science Play Preschool Enrichment Program**

*Science Play*, funded by the A.D. Henderson Foundation, will reach more than 300 Champlain Valley Head Start (CVHS) preschoolers in a combination of school site outreach visits, class field trips to ECHO, family visits to ECHO, and professional development for teacher-caregivers during the 2006-07 school year. The program will enhance science literacy for the neediest young children by teaching science and ecology through the proven approach of movement, music, stories, and age-specific art projects.

**2. ECHO Access Kids — After School Visits**

Youth agencies and home care providers who serve at least 50% low income children in after-school programming will be invited to schedule group trips to ECHO from 3pm – 5pm for up to 25 children and 5 adult chaperones per visit at the significantly reduced rate of \$2 per person. This program is funded by several private foundations.



## **ECHO Encounters**

The success of the everyday guest experience rests in large part on our ability to engage and interact personally with guests during their visit. ECHO Encounters are about experiences that leave a lasting impression and provide guests a chance to reflect on their relationship to the Lake Champlain Basin. The dialogue that naturally occurs during ECHO Encounters between our guests and our staff represents one of the best ways to foster a personal connection to the Basin.

### **Daily Live Animal Feedings and Demonstrations:**

ECHO's exhibits, which are designed to be interactive and hands-on, are supplemented by daily live animal feedings and demonstrations. These 15 to 20 minute presentations, which are among our most popular offerings, allow guests the opportunity to view animals outside of their habitats and to ask questions in a more intimate setting. The informal discussions that often take place after the presentation allow guests to share their personal experiences and help further the sense that the Basin is "our" watershed that we are responsible for protecting. The "Breakfast with the Animals" program offers annual passholders the opportunity to get behind-the-scenes with our animal care staff to learn even more about the care and feeding of our animal ambassadors.

### **Interactive Activities:**

Through ecological games, take-home crafts, manipulative toys (Playdoh, LEGO, Lincoln Logs, etc.) and science experiments, guests can take a break from the floor exhibits to learn more while doing! Short 15-20 minute activities in one of our classrooms or flexible open floor space provide fun, engaging enrichment to guests that leaves a lasting impression. For example, the game Web of Life, appropriate for any age group, teaches about the interdependence between all living things. Participants take on the roles of animals and plants within the Basin and create a web out of string that illustrates different "what-if" scenarios: If a pesticide harms a particular plant or animal, how would other plants and animals and their habitats be affected?

### **ECHO Treks:**

These self-guided, scavenger hunts help direct the visitor learning experience. There are treks suitable for four age-levels, each from based on ECHO's themes of ecology, culture, history and opportunity for stewardship. Young visitors will draw, count, read, inquire, estimate and write as they explore ECHO's exhibits.

### **Story Time:**

These weekly presentations include stories and activities about animals, water, habitats and a whole range of science and cultural learning for younger audiences. Over the past year, our Tuesday morning story time has become enormously popular with a regular, growing group of attendees.

**Current Waves Work Bench:**

The Current Wave Workbench was developed in conjunction with LakeNet to allow visitors to experiment and explore concepts about the Lake Champlain Basin and watersheds around the world. The Workbench, a free standing cart-like structure, allows exhibit interpreters to interact one-on-one or with small audiences using graphics, media, artifacts, and hands-on activities. Work Bench topics are created to support traveling exhibits, new permanent exhibits and seasonal themes. Their role is to provide a cost-effective way to quickly respond to emerging current science issues.

**Volunteer Interactions:**

Our ability to interact with guests throughout their ECHO experience requires the talents of hundreds of volunteers. Volunteer Exhibit Interpreters receive ongoing training and support to keep them up-to-date on current Basin issues, our changing exhibit experience including traveling exhibits, Work Bench topics, and animal husbandry.

**Live Animal Exhibit Upkeep and Maintenance:**

Our Animal Ambassadors represent much of what is unique about ECHO. It is critical that we provide them with round-the-clock care and house them in the best of habitats. This requires the skills of our trained Animal Care staff and many volunteers who assist with daily animal husbandry. It also necessitates state-of-the-art aquaria, filtration systems, and natural habitats. Our interactive guest experience also requires extensive care to keep exhibits in good working order and to supply the props and materials for demonstrations and activities.

**PROGRAM EVALUATION****ECHO's Open Door Access Program**

The Open Door Access Program at ECHO is based on providing either free entry or a significantly discounted entry fee to disadvantaged children, senior citizens, people with disabilities and low income community members. ECHO will measure and periodically report the actual distribution of voucher discounts and passes (a key work plan output) vs. the work plan commitment in relation to the Open Door Access Program (see Attachment IV).

ECHO's Open Door Access Program is community-based. Evaluation of the effectiveness of the program (a key plan output) requires that we survey participants regarding their experience. We will focus our survey efforts on such areas as:

- How have libraries utilized the annual pass program to build interest in the library, its programs, and the Lake?
- How does geographic distance from ECHO, librarian support and size and scope of the community impact the use of the Library ECHO Pass Program?



- Which types of social service agencies found the Day Pass Program most useful?
- How did the agencies integrate the Day Pass Program with their other programs?
- How did the program inspire new stewardship programs to evolve in any of the programs offered by our community partners?

ECHO will periodically summarize and report the results of these surveys regarding perceptions of its Open Door Access Program.

### **ECHO Exhibits and Programs**

The exhibits and programs of ECHO are evaluated on a regular basis with the support of our partnership with the University of Vermont (UVM). We use UVM survey teams to evaluate the impact of new programs and exhibits, identify seasonal trends, and receive honest guest feedback through an independent source. ECHO will periodically summarize and report the results of these surveys regarding perceptions of its exhibits and programs.

ECHO also perceives that the exhibits and programs referenced above have a positive impact on its attendance. Although no direct cause-and-effect can be proven, it can be argued that a correlation does exist between the engaging and educational experiences fostered by ECHO Encounter initiatives and increased attendance at ECHO. Increased attendance translates into a broader distribution of ECHO's message of environmental stewardship. ECHO will provide a monthly accounting of its total attendance as compared to the previous year as part of its required periodic reporting.

### **SUMMARY**

ECHO will use the 2007 EPA grant proceeds to continue to strengthen and promote stewardship of the Lake Champlain Basin. Grant proceeds will also be used to support *Opportunities for Action* as defined and stated in the Lake Champlain Basin Management Plan. Public involvement is critical to achieving the goals outlined in the *Opportunities for Action* plan and protecting the future of the Lake Champlain Basin. ECHO will continue to encourage public involvement by educating people about issues facing the Basin and how they can care for their watershed. ECHO's Open Door Access Program and ECHO Encounters are both proven effective means of increasing admissions to ECHO. Increased admissions to ECHO will translate into a higher level of community knowledge regarding environmental challenges and potential solutions. This knowledge will further translate into personal and collective action to improve and sustain the Lake Champlain Basin environment for current and future generations.

## **ATTACHMENT I**

### **Federal FY 2007 BUDGET OVERVIEW**

**Personnel:** **\$ 40,548**

Direct salaries to develop and implement programs and exhibits

- Fringe Benefits – 26%

**ECHO's Open Door Access Program:** **\$177,440**

- Social Service Agency discount
- Library ECHO Pass program
- Matching Annual Pass gift program
- ECHO School Ambassador Annual Pass program
- Mentoring Discount Card program
- Implementation

**ECHO Encounters:** **\$ 11,250**

- Daily Live Animal Feedings and Demonstrations
- ECHO Treks
- Story Time
- Current Waves Work Bench
- Volunteer Interactions
- Live Animal Exhibit Upkeep and Maintenance

**Indirect Costs (based on provisional rate):** **\$ 20,762**

64.52% of direct salaries

- covers shared guest experience costs including custodial and admissions staff, bookkeeping, utilities, property insurance, depreciation

**TOTAL** **\$250,000**



## ATTACHMENT II

### Social Service Agencies working with ECHO through its Open Door Access Program

Adirondack Community Action	King Street Youth Center
Addison Community Action/CVOEO	Laraway Youth and Family Services
American Red Cross Northern VT	Lund Family Center
Association of African's Living in VT	Maple Leaf Farm Associates, Inc
Baird Center for Children & Families	Mercy Connections, Inc.
Boys & Girls Club of Burlington	MOBIUS Mentoring, Inc
Burlington Children's Space	Milton Family Community Center
Burlington Housing Authority	New Directions for Barre
Campaign to End Childhood Hunger	New North End Youth Center
Champlain Community	Northeastern Family Institute
Champlain Senior Center	Northgate Non-Profit
	Partnership for Youth and Community Empowerment
Champlain Valley Agency On Aging	Retired Senior Volunteer Program (RSVP)
Champlain Valley Head Start - Chittenden County	Rutland Boys and Girls Club
Champlain Valley Head Start – Addison County	Safe Space
Champlain Valley Head Start - Franklin/Grand Isle	Sara Holbrook Center
Champlain Vocational Services	Salvation Army
Chittenden Community Action	Spectrum Youth & Family Services
Chittenden Emergency Food Shelf	Transitions Child Care
Committee on Temporary Shelter	Vergennes Boys and Girls Club
Community Network For Children, Youth & Families	
Converse Home	Vermont Adult Learning
Dream Program Inc.	Vermont Adult Learning
Early Childhood Connection/Even Start	Vermont Cares
Essex CHIPS	Vermont Children's Aid Society
Foster Grandparents Program	Vietnamese Association
Greater Burlington YMCA	VNA Family Room
HomeShare Vermont	VT Refugee Resettlement Program
Howard Center For Human Services	Winooski Family Center
	Women Helping Battered Women
	YWCA of Vermont

### **ATTACHMENT III**

#### **Libraries that have had patrons visit ECHO under its Library ECHO Pass Program**

Addison Central School Library	Middlebury College
Albert D. Lawton School Library	Middlebury Union High School Library
Alburg Community Educational Center Library	Middletown Springs Public Library
Aldrich Public Library	Mill River Union High School Library
Allen Brook School	Milton Elementary School
AuSable Forks Free Library	Milton Junior/Senior High School Library
Bakersfield School Library	Milton Public Library
Barre City Elementary & Middle School Library	Missisquoi Valley Union Middle/High School
Bellows Free Academy	Monkton Central School
Belvidere Central School Library	Montgomery Elementary School
Benson Public Library	Montgomery Town Library
Benson Village School Library	Moretown School
Bixby Memorial Free Library	Morristown Centennial School Library
Black Watch Memorial Library	Morristown Elementary
Brandon Free Public Library	Morristown Elementary School Library
Bridport Central School Library	Neshobe School
Bristol Elementary School	New Haven Community Library
Brookfield Elementary School Library	Newbury Elementary School Library
Brookfield Free Public Library	Newport Town School
	No. Country Coalition of Libraries, Big Read Wagon
Brown Public Library	North Hero Elementary School Library
Brownell Library	Northfield Elementary School
Browns River Middle School	Northfield Middle/High School
Burnham Memorial Library	Norwich Public School Library
C P Smith Elementary School	Peacham Elementary School
Cabot Public Library	Peru Free Library
Calais Elementary School Library	Pierson Library
Cambridge Elementary School Library	Proctor Junior/Senior High School Library
Camel's Hump Middle School Library	Rice Memorial High School
Carpenter-Carse Library	Richford Elementary School Library
Castleton State College- Calvin Coolidge Library	Richford Jr./Sr. High School Library
Champlain Elementary School Library	Richmond Elementary School Library
Charlotte Library	Richmond Free Library
Colchester High School Library	Robinson School Library
Craftsbury Public Library	Rochester Public Library
Currier Memorial Elementary School	Roxbury Free Library
Dannemora Free Library	Roxbury Village School
Deborah Rawson Memorial Library	Rumney Memorial School
Dodge Library	Rutland Middle School Library
Dorothy Alling Library	Rutland Northeast Primary School Library
Doty Memorial School	



Edmunds Elementary School Library  
 Edmunds Middle School Library  
 Elizabethtown-Lewis Central School  
 Enosburg Public Library  
 Essex Elementary School Library  
 Essex Free Library  
 Essex Middle School Library  
 Fairfax Community Library  
 Fayston Elementary School Library  
 Ferrisburgh Central School Library  
 Fletcher Free Library  
 Founders Memorial School Library  
 Franklin Central School Library  
 Frederick H. Tuttle Middle School  
 Gary Memorial Library  
 Georgia Elementary & Middle School Library  
 Georgia Public Library  
 Glover Public Library  
 Grand Isle Elementary School Library  
 Grand Isle Free Library  
 Greensboro Free Library  
 Haston Library  
 Hazen Union School Library  
 Highgate Elementary School Library  
 Hinesburg Community School Library  
 Huntington Public Library  
 Hyde Park Elementary School  
 Ilsley Public Library  
 Isle LaMotte School  
 Jaquith Public Library  
 Jericho Elementary School  
 Jericho Town Library  
 Johnson Public Library  
 Johnson State College  
 Joslin Memorial Library  
 Keene Public Library  
 Kellogg-Hubbard Library  
 Lanpher Memorial Library  
 Lawrence Memorial Library  
 Lincoln Library  
 Lincoln Public Library  
 Long Trail School Library  
 Lowell Graded School  
 Lyman C. Hunt Middle School Library  
 Mater Christi School

Rutland Northwest Primary School Library  
 Saint Michael's College  
 Salisbury Community School  
 Salisbury Free Public Library  
 Sarah Partridge Community Library  
 Saranac Lake Free Library  
 Schroon Lake Public Library  
 Shelburne Community School  
 Sherburne Elementary School Library  
 Sherburne Memorial Library  
 Sherman Free Library  
 Shrewsbury Library  
 Smilie Memorial School Library  
 South Burlington Community Library  
 South Hero Community Library  
 St. Albans City Elementary School  
 St. Albans Free Library  
 St. Joseph's Elementary School  
 Starksboro Public Library  
 Sterling College  
 Stowe Elementary School  
 Stowe Free Library  
 Sudbury Country School  
 Summit Street Elementary School Library  
 Swanton Central School Library  
 Swanton Public Library  
 Tenney Memorial Library  
 Thatcher Brook Primary  
 Thatcher Brook Primary School Library  
 The Pember Library and Museum  
 Tinmouth School  
 U-32 High School Library  
 Underhill I.D. School  
 Varnum Memorial Library  
 Vergennes Union Elementary School  
 Vergennes Union Middle/High School  
 Wadhams Free Library  
 Warren Public Library  
 Washington Village School  
 Waterbury Public Library  
 Waterville Elementary School  
 Wells Village School  
 West Rutland Free Library  
 Westford Library  
 Williston Central School  
 Winooski Memorial Library

## **ATTACHMENT IV**

Lake Champlain Basin Science Center, Inc.  
d/b/a ECHO at the Leahy Center for Lake Champlain  
EPA 2007 Work Plan

### **Work Plan Performance Metrics**

#### **ECHO Open Door Access Program**

##### **Access for Social Service Organizations**

Discount Admission Voucher Distribution #  
"You Give / We Give" Matching Gift Program  
- Annual Pass Distribution #

<b>ECHO Commitment</b>	<b>Actual YTD</b>	<b>% Of Total</b>
5,900		
250		

##### **Library ECHO Pass Program**

Pass Distribution # to Basin Libraries

575		
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##### **ECHO School Ambassador Program**

Annual Pass Distribution #

300		
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##### **Mentoring Collaboration Program**

Discount Admission Voucher Distribution #

50		
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## BUDGET INFORMATION - Non-Construction Programs

## SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1.		\$	\$	\$ 1,334,250	\$ 476,408	\$ 1,810,658
2.						
3.						
4.						
5. Totals		\$ 0.00	\$ 0.00	\$ 1,334,250	\$ 476,408	\$ 1,810,658

## SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1) Federal 05	(2) Federal 06	(3)	(4)	
a. Personnel	461,700	428,868			890,568
b. Fringe Benefits	64,210	111,506			175,716
c. Travel	1,000	750			1,750
d. Equipment	0	0			0
e. Supplies	36,859	37,000			73,859
f. Contractual	23,000	33,974			56,974
g. Construction	0	0			0
h. Other	186,400	186,853			373,253
i. Total Direct Charges (sum of 6a-6h)	773,169	800,951			1,574,120
j. Indirect Charges	86,436	150,102			236,538
k. TOTALS (sum of 6i and 6j)	\$ 859,605	\$ 951,053	\$	\$	\$ 1,810,658
7. Program Income	\$	\$	\$	\$	0.00

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Prescribed by OMB Circular A-102

**ECHO at the Leahy Center for Lake Champlain**  
**FY 06 U.S. EPA Project Budget**  
**Budget Detail by Project**

		FEDERAL	NON-FEDERAL	TOTAL	
<b>Personnel:</b>					
<b>Direct Salaries:</b>					
Position	Annual Salary	Time Allocated to Project	Project Salary Allocation	ECHO In-Kind Match	Project Total
Director of New Product Development	\$49,899	100%	\$49,899	\$0	\$49,899
Director of Animal Care and Facilities	48,657	100%	48,657	0	48,657
Senior Education Manager	39,340	60%	23,604	15,736	39,340
Educator	29,712	55%	16,342	13,370	29,712
Volunteer Coordinator	26,868	85%	22,836	4,030	26,868
Environmental Exhibit Specialist	31,199	100%	31,199	0	31,199
Environmental Exhibit Specialist	31,199	100%	31,199	0	31,199
Director of Finance and Administration	54,868	20%	10,974	21,947	32,921
Executive Director	102,179	20%	20,436	40,871	61,307
Senior Marketing & Communications Manager	40,400	10%	4,040	20,200	24,240
Marketing Assistant	9,258	20%	1,852	3,703	5,555
Development and Technology Manager	35,350	15%	5,303	15,908	21,211
Director of Guest Services	48,657	0%	0	26,761	26,761
		Subtotal	\$268,341	\$182,527	\$428,868
<b>Fringe Benefits - 26% of Base Salary includes payroll tax, health benefits, time off, retirement, life insurance, workers compensation insurance</b>		Subtotal	\$69,249	\$42,257	\$111,506
<b><u>"ECHO's Open Door" Access Program:</u></b>					
		Discount/Pass			
<b>Other:</b>	# Visits/Passes	Value	Total		
Vermont/New York resident discount	10,583	\$2	\$21,127	\$0	\$21,127
Social Service agency discount	5,500	\$5	27,500	0	27,500
Library ECHO Pass program	377	\$150	56,550	0	56,550
Teacher Ambassador annual pass program	200	\$90	18,000	0	18,000
Matching annual pass program	247	\$108	26,676	0	26,676
Mentoring discount card program	900	\$10	9,000	0	9,000
Marketing including promotional mailings, advertising to communicate discounts to the public, postage, posters, signage			21,000	0	21,000
<b>Supplies - including letterhead, envelopes, discount passes</b>			4,000	0	4,000
		Subtotal	\$183,853	\$0	\$183,853
<b><u>Traveling and Permanent Exhibits:</u></b>					
<b>Travel</b> - Tree House pickup and delivery to ECHO			\$750	\$0	\$750
<b>Contractual</b> - Save the Frog! Exhibit fabrication			31,474	0	31,474
<b>Supplies</b> - Tree Houses fabrication			5,000	0	5,000
		Subtotal	\$37,224	\$0	\$37,224
<b><u>ECHO Encounters:</u></b>					
<b>Other</b> - Animal Care - food, veterinary services			\$9,000	\$0	\$9,000
<b>Props/Supplies</b> - for ECHO Encounters, interactive exhibits, uniforms, replacement pieces for broken exhibits, tank/habitat supplies			28,000	0	28,000
<b>Contractual</b> - Fees paid to guest speakers, demonstrators			2,500	0	2,500
		Subtotal	\$39,500	\$0	\$39,500
<b><u>Indirect Charges</u> - 266,341 x .35</b>					
Provisional rate of 35% includes allocation for salaries bookkeeper, custodial, admissions and non-labor costs associated with providing the guest experience including utilities, property insurance, depreciation		Subtotal	\$93,218	\$56,884	\$150,102
		TOTALS	\$689,385	\$281,888	\$951,053



## Recipient Pre-Award Certification

### LCBSC - Lake Champlain Basin Science Center ->

Editor: Joseph Lucia

#### Recipient Point of Contact

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#### Other Recipient

##### Info/Comments:

ECHO at the Leahy Center for Lake Champlain

Address: 1 College Street Burlington Vermont 05401

Contact Person: Luanne Cantor Telephone: 802-864-1848  
Extension 103

E-mail: lcantor@echovermont.org

Amount: Approx \$644,826 Web Address: www.echovermont.org


EPA Program: Lake Champlain Basin Program


EPA PO Name: Erik Beck EPA PO Telephone: 617-918-1606




Comments: Was formerly known as the Lake Champlain


Science Center. Has successfully delivered on EPA

grants in the past. Received request 8/16. Sent questionnaire 8/17  Received


email audit & personnel policy. Requested accounting and procure policy on 9/06  Rec complete

policies and procedures on 10/20. Emailed to L. Snead for review 10/25. 

Emailed grantee to elaborate on procurement policy   Rec report on 11/2  No

weaknesses identified. Emailed GMO for recommendation on 11/08. 



lake champlain sci cent pre award rept 1105.doc GMO emailed 11/09 to PAC 

#### Certification Information

Date questionnaire was sent to applicant: 08/17/2005

Date questionnaire was received by GMO: 10/20/2005

Date Administrative Capability Certified: 11/08/2005

Date Administrative Capability expires: 11/09/2009

Name of who certified applicant: Joe Lucia

GMO recommendation:

Application for Federal Assistance SF-424

Version 02

<b>* 1. Type of Submission:</b> <input type="checkbox"/> Preapplication <input checked="" type="checkbox"/> Application <input type="checkbox"/> Changed/Corrected Application		<b>* 2. Type of Application:</b> <input type="checkbox"/> New <input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Revision		<b>* If Revision, select appropriate letter(s):</b> <input type="text"/> <b>* Other (Specify)</b> <input type="text"/>	
<b>* 3. Date Received:</b> Completed by Grants.gov upon submission.		<b>4. Applicant Identifier:</b> <input type="text"/>			
<b>5a. Federal Entity Identifier:</b> <input type="text"/>			<b>* 5b. Federal Award Identifier:</b> LC-97144701 2 A		
<b>State Use Only:</b>					
<b>6. Date Received by State:</b> <input type="text"/>		<b>7. State Application Identifier:</b> <input type="text"/>			
<b>8. APPLICANT INFORMATION:</b>					
<b>* a. Legal Name:</b> Lake Champlain Basin Science Center dba ECHO at the Leahy Center for Lake Champlain					
<b>* b. Employer/Taxpayer Identification Number (EIN/TIN):</b> 03-0347288			<b>* c. Organizational DUNS:</b> 968486571		
<b>d. Address:</b>					
<b>* Street1:</b> One College Street					
<b>Street2:</b> <input type="text"/>					
<b>* City:</b> Burlington					
<b>County:</b> Chittenden					
<b>* State:</b> Vermont					
<b>Province:</b> <input type="text"/>					
<b>* Country:</b> US					
<b>* Zip / Postal Code:</b> 05401					
<b>e. Organizational Unit:</b>					
<b>Department Name:</b> <input type="text"/>			<b>Division Name:</b> <input type="text"/>		
<b>f. Name and contact information of person to be contacted on matters involving this application:</b>					
<b>Prefix:</b> Ms.		<b>* First Name:</b> Luanne			
<b>Middle Name:</b> <input type="text"/>					
<b>* Last Name:</b> Cantor					
<b>Suffix:</b> <input type="text"/>					
<b>Title:</b> Director of Finance and Administration					
<b>Organizational Affiliation:</b> <input type="text"/>					
<b>* Telephone Number:</b> 802-864-1848 x103			<b>Fax Number:</b> 802-864-6832		
<b>* Email:</b> lcantor@echovermont.org					



*Janet*  
*Emil*  
*Beck*  
*CWN*

*non profit*

*diff award in 16ms*  
*meek*  
*8/8/06*



Application for Federal Assistance SF-424

Version 02

16. Congressional Districts Of:

\* a. Applicant

\* b. Program/Project

Attach an additional list of Program/Project Congressional Districts if needed.

17. Proposed Project:

\* a. Start Date:

\* b. End Date:

18. Estimated Funding (\$):

* a. Federal	<input type="text" value="\$1,334,250.00"/>
* b. Applicant	<input type="text" value="\$476,408.00"/>
* c. State	<input type="text"/>
* d. Local	<input type="text"/>
* e. Other	<input type="text"/>
* f. Program Income	<input type="text"/>
* g. TOTAL	<input type="text" value="\$1,810,658.00"/>

\* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?

- ☐ a. This application was made available to the State under the Executive Order 12372 Process for review on
- ☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- ☒ c. Program is not covered by E.O. 12372.

\* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)

☐ Yes ☒ No

21. \*By signing this application, I certify (1) to the statements contained in the list of certifications\*\* and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances\*\* and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

☒ \*\* I AGREE

\*\* The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix:  \* First Name:

Middle Name:

\* Last Name:

Suffix:

\* Title:

\* Telephone Number:  Fax Number:

\* Email:

\* Signature of Authorized Representative:  \* Date Signed:

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## BUDGET INFORMATION - Non-Construction Programs

## SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1.		\$	\$	\$ 689385	\$ 261668	\$ 951053
2.						
3.						
4.						
5. Totals		\$	\$	\$ 689385	\$ 261668	\$ 951053

## SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
a. Personnel	428868				428868
b. Fringe Benefits	111506				111506
c. Travel	750				750
d. Equipment	0				0
e. Supplies	37000				37000
f. Contractual	33974				33974
g. Construction	0				0
h. Other	188853				188853
i. Total Direct Charges (sum of 6a-6h)	800951				800951
j. Indirect Charges	150102				150102
k. TOTALS (sum of 6i and 6j)	\$ 951053	\$	\$	\$	\$ 951053

7. Program Income	\$	\$	\$	\$	\$	0.00
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**ASSURANCES - NON-CONSTRUCTION PROGRAMS**

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0040), Washington, DC 20503.

**PLEASE DO NOT RETURN YOUR COMPLETED FORM TO THE OFFICE OF MANAGEMENT AND BUDGET. SEND IT TO THE ADDRESS PROVIDED BY THE SPONSORING AGENCY.**

NOTE: Certain of these assurances may not be applicable to your project or program. If you have questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.</li> <li>2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.</li> <li>3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.</li> <li>4. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.</li> <li>5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. 4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).</li> <li>6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. 1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), which prohibits discrimination on the</li> </ol> | <ol style="list-style-type: none"> <li>basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. 6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) 523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. 290 dd-3 and 290 ee-3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VII of the Civil Rights Act of 1968 (42 U.S.C. 3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; (i) any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.</li> <li>7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.</li> <li>8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. 1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.</li> </ol> |
|--|---|

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Prescribed by OMB Circular A-102

## **PROGRAM EVALUATION**

### **ECHO's Open Door Access Program**

The evaluation of this program has already begun and some of the feedback received to date has been incorporated in the proposed 2006 plan. Because this is a community-based program, evaluation requires an analysis of how the community responds to the opportunity and of its regional impacts. We are asking questions such as:

- How have libraries utilized the annual pass program to build interest in the library, its programs, and the Lake?
- How does geographic distance from ECHO, librarian support and size and scope of the community impact the use of the Library ECHO Pass program?
- Which types of social service agencies found the Day Pass program most useful?
- How did the agencies integrate the Day Pass program with their other programs?
- How did the program inspire new stewardship programs to evolve in any of the programs offered by our community partners?

These and other questions are driving the evaluation of ECHO's Open Door access program. We keep in ongoing contact with our partners and have used the formative information to alter programs as needed. We will also collect summative evaluation information through surveys, phone interviews, and focus groups. This traditionally qualitative information will be at the core of our evaluation, supplemented with the statistics of visitor ship and use patterns.

### **ECHO Exhibits and Programs**

The exhibits and programs of ECHO are evaluated on a regular basis with the support of our partnership with the University of Vermont (UVM). We use UVM survey teams to evaluate the impact of new programs and exhibits, identify seasonal trends, and receive honest guest feedback through an independent source.

## **ECHO IN-KIND MATCH**

ECHO will provide in-kind matching support for this grant in the amount of \$261,668 based on personnel and indirect costs that are not already charged to this project.

## **SUMMARY**

ECHO will use the EPA grant to strengthen our stewardship message and further support the *Opportunities for Action* as stated in the Lake Champlain Basin Management Plan. Public involvement is critical to achieving the goals outlined in the plan and protecting



leaves a lasting impression. For example, the game Web of Life, appropriate for any age group, teaches about the interdependence between all living things. Participants take on the roles of animals and plants within the Basin and create a web out of string that illustrates different “what-if” scenarios: If a pesticide harms a particular plant or animal, how would other plants and animals and their habitats be affected?

#### **ECHO Treks:**

These self-guided, scavenger hunts help direct the visitor learning experience. There are treks suitable for four age-levels, each from based on ECHO’s themes of ecology, culture, history and opportunity for stewardship. Young visitors will draw, count, read, inquire, estimate and write as they explore ECHO’s exhibits.

#### **Story Time:**

These weekly presentations include stories and activities about animals, water, habitats and a whole range of science and cultural learning for younger audiences. Over the past year, our Tuesday morning story time has become enormously popular with a regular, growing group of attendees.

#### **Current Waves Work Bench:**

The Current Wave Workbench was developed in conjunction with LakeNet to allow visitors to experiment and explore concepts about the Lake Champlain Basin and watersheds around the world. The Workbench, a free standing cart-like structure, allows exhibit interpreters to interact one-on-one or with small audiences using graphics, media, artifacts, and hands-on activities. Work Bench topics are created to support traveling exhibits, new permanent exhibits and seasonal themes. Their role is to provide a cost-effective way to quickly respond to emerging current science issues.

#### **Volunteer Interactions:**

Our ability to interact with guests throughout their ECHO experience requires the talents of hundreds of volunteers. Volunteer Exhibit Interpreters receive ongoing training and support to keep them up-to-date on current Basin issues, our changing exhibit experience including traveling exhibits, Work Bench topics, and animal husbandry.

#### **Live Animal Exhibit Upkeep and Maintenance:**

Our Animal Ambassadors represent much of what is unique about ECHO. It is critical that we provide them with round-the-clock care and house them in the best of habitats. This requires the skills of our trained Animal Care staff and many volunteers who assist with daily animal husbandry. It also necessitates state-of-the-art aquaria, filtration systems, and natural habitats. Our interactive guest experience also requires extensive care to keep exhibits in good working order and to supply the props and materials for demonstrations and activities.

mini-object theatres, visitors operate blood sucker-killing devices that trigger recorded messages from suckers presenting their positive attributes and reasons why they should continue to live. A can of repellant, a box of salt and a swatter all are ways to eliminate mosquitoes, leeches, and black flies. Visitors will also observe leech locomotion, sticking power, and adaptations to surviving in their aquatic habitat. A leech tank resembling a section of a typical New England pond, with rocks, logs, and aquatic plants will have special magnifiers to enable visitors to observe leeches sticking to the sides of the tank. *Jurassic New England* introduces visitors to pre-historic New England including dinosaurs in Massachusetts and ancient sea Ice Age creatures in Vermont. What can scientists learn from fossil footprints left all over New England? Visitors will see and touch some real fossils and meet some “living fossils” – animals and plants that have lived on earth since the time of the dinosaurs.

### **Permanent Exhibits:**

*Save the Frogs: Imperiled Amphibians* (working title) is a new exhibit under initial development that will help visitors explore connections between the Lake Champlain Basin and other watersheds around the world and better understand the impact of their behavior on the animal kingdom, and specifically on amphibians.

From the Amazon River Basin and California’s Sierra Nevada’s to Queensland in Australia and the Lake Champlain Basin, frogs around the world are in trouble. Habitat loss, pollution, and climate change pose chronic threats to amphibians. But a more acute threat, a tropical fungus that is spreading due to global warming, is calling herpetologists around the world to arms. Since 1990, scientists have referred to amphibians as canaries in the coal mine; the Global Amphibian Assessment (GAA) shows that the canaries (amphibians) are dying. The Amphibian Conservation Summit that took place in Washington D.C. in September 2004 framed the gravity of the situation with statistics and new research.

Based on this current research, the global nature of the problem, and the international exhibit development work ECHO has done with LakeNet in the past, ECHO plans to develop a new permanent exhibit that explores frogs around the world and the daily challenges they face brought on by human behaviors. ECHO will expand its live animal collection beyond the Lake Champlain Basin by highlighting live tropical frogs that are the “poster children” for biodiversity and bio-indicator species for environmental health. ECHO also will explore the connections to the local Lake Champlain Basin frog populations and species that may relate to international LakeNet basins. In conjunction with other organizations such as National Wildlife Federation (NWF), VT DEC – Water Quality Division, and Vermont Public Interest Research Group (VPIRG), ECHO will tell the story of citizens participating in local environmental monitoring. The exhibit will include live habitats, interactive components including new web pages that engage our guests in the issues, research, and stewardship.



## **Mentoring Collaborations:**

### **Program Summary:**

ECHO is collaborating with MOBIUS Mentoring, Inc. to reach disadvantaged children throughout Chittenden County. Started in 2000 because of soaring school drop-out and heroin use rates in Burlington and neighboring Winooski, area community leaders launched Mobius Mentoring, Inc. as a mentor training, funding and support network to improve outcomes for youth in Chittenden County. ECHO participates in the Mobius Card program that offers discounts to many area activities for mentors and their mentees.

According to MOBIUS Mentoring, the discounted admission to ECHO helps them attract mentors because it offers fun and educational activities that they can share with their mentees at a reasonable cost. Their feedback to date is that we simplify the program by charging both mentors and mentees a \$2 admission fee similar to the social service agency vouchers. (Currently, mentees receive free admission when accompanied by a paying mentor.)

### **Program Details:**

Offer three annual visits at the significantly reduced admission price of \$2 to up to 300 mentors and their mentees.

The components described above will supplement the following activities that are already in place and that are not part of this work plan:

#### **1. ECHO Basin Backyard Explorers—Access for Schools**

One of the most effective ways to help children learn about stewardship of the Lake Champlain Basin is through ECHO's school programs. ECHO has partnered with Hannaford Supermarkets to launch the Hannaford ECHO Basin Backyard Explorers, an experiential program for K through 8<sup>th</sup> graders based on the Vermont Framework of Standards. Now in its third year, the program includes discounted student admission, free adult admissions, a free class with an ECHO educator, and a free return class visit during the ECHO Earth Weeks Student Fair in April 2007.

#### **2. Science Play Preschool Enrichment Program**

*Science Play*, funded by the A.D. Henderson Foundation, will reach more than 300 Champlain Valley Head Start (CVHS) preschoolers in a combination of school site outreach visits, class field trips to ECHO, family visits to ECHO, and professional development for teacher-caregivers during the 2006-07 school year. The program will enhance science literacy for the neediest young children by teaching science and ecology through the proven approach of movement, music, stories, and age-specific art projects.

#### **3. ECHO Access Kids — After School Visits**

Youth agencies and home care providers who serve at least 50% low income children in after-school programming will be invited to schedule group trips to ECHO from 3pm – 5pm for up to 25 children and 5 adult chaperones per visit at the significantly reduced rate of \$2 per person. This program is funded by several private foundations.

Fairfax Community Library  
 Fayston Elementary School Library  
 Ferrisburgh Central School Library  
 Fletcher Free Library  
 Founders Memorial School Library  
 Franklin Central School Library  
 Frederick H. Tuttle Middle School  
 Gary Memorial Library  
 Georgia Elementary & Middle School Library  
 Georgia Public Library  
 Glover Public Library  
 Grand Isle Elementary School Library  
 Grand Isle Free Library  
 Greensboro Free Library  
 Haston Library  
 Hazen Union School Library  
 Highgate Elementary School Library  
 Hinesburg Community School Library  
 Huntington Public Library  
 Hyde Park Elementary School  
 Ilsley Public Library  
 Isle LaMotte School  
 Jaquith Public Library  
 Jericho Elementary School  
 Jericho Town Library  
 Johnson Public Library  
 Johnson State College  
 Joslin Memorial Library  
 Keene Public Library  
 Kellogg-Hubbard Library  
 Lanpher Memorial Library  
 Lawrence Memorial Library  
 Lincoln Library  
 Lincoln Public Library  
 Long Trail School Library  
 Lowell Graded School  
 Lyman C. Hunt Middle School Library  
 Mater Christi School

Shelburne Community School  
 Sherburne Elementary School Library  
 Sherburne Memorial Library  
 Sherman Free Library  
 Shrewsbury Library  
 Smilie Memorial School Library  
 South Burlington Community Library  
 South Hero Community Library  
 St. Albans City Elementary School  
 St. Albans Free Library  
 St. Joseph's Elementary School  
 Starksboro Public Library  
 Sterling College  
 Stowe Elementary School  
 Stowe Free Library  
 Sudbury Country School  
 Summit Street Elementary School Library  
 Swanton Central School Library  
 Swanton Public Library  
 Tenney Memorial Library  
 Thatcher Brook Primary  
 Thatcher Brook Primary School Library  
 The Pember Library and Museum  
 Tinmouth School  
 U-32 High School Library  
 Underhill I.D. School  
 Varnum Memorial Library  
 Vergennes Union Elementary School  
 Vergennes Union Middle/High School  
 Wadhams Free Library  
 Warren Public Library  
 Washington Village School  
 Waterbury Public Library  
 Waterville Elementary School  
 Wells Village School  
 West Rutland Free Library  
 Westford Library  
 Williston Central School  
 Winooski Memorial Library



Dream Program Inc.  
Early Childhood Connection/Even Start  
Essex CHIPS  
Foster Grandparents Program  
Greater Burlington YMCA  
HomeShare Vermont  
Howard Center For Human Services

Vermont Cares  
Vermont Children's Aid Society  
Vietnamese Association  
VNA Family Room  
VT Refugee Resettlement Program  
Winooski Family Center  
Women Helping Battered Women  
YWCA of Vermont

**Program Details:**

- A. Distribute 5,500 \$2 admission vouchers to Vermont and New York social service agencies and non-profits providing services to underserved populations. The vouchers are redeemable for the significantly reduced admission price of \$2 and are valid every day that ECHO is open.
- B. Continue the "You Give/We Give" Annual Pass matching gift program: for every Annual Pass purchased during the 2006 November/December holiday season, ECHO will donate one Annual Pass to a social service agency that participates in ECHO's Open Door Access Program. The social service agencies will present the passes directly to their clients. Based on last year's program, we expect to distribute up to 1,250 Annual Passes, the equivalent of 250 family passes each valid for up to two adults and three children.

**Library ECHO Pass:**

**Program Summary:**

In the Lake Champlain Basin, there are at least 377 libraries serving over 500,000 residents. This component of the access program serves Basin library patrons by offering day passes to each local library at no cost to them. Patrons who check out a pass, like they would a book, can visit ECHO for the significantly reduced admission price of \$2 per person. The program was developed in partnership with the Vermont Department of Libraries and the Vermont Libraries Association who have helped to announce and publicize it to libraries throughout the Basin. The Library ECHO pass program has been enormously successful, with passes being used on almost a daily basis by residents from nearby Chittenden County to Newport, Vermont to Saranac, New York.

Libraries that have had patrons visit ECHO:

Addison Central School Library  
Albert D. Lawton School Library  
Alburt Community Educational Center Library  
Aldrich Public Library  
Allen Brook School  
AuSable Forks Free Library  
Bakersfield School Library

Middlebury College  
Middlebury Union High School Library  
Middletown Springs Public Library  
Mill River Union High School Library  
Milton Elementary School  
Milton Junior/Senior High School Library  
Milton Public Library

environmental issues and through “ECHO Encounters” – crafts, games, experiments and demonstrations led by volunteers and staff – that provide personal opportunities for dialogue and create a comfortable, welcoming experience for guests of all ages.

- Support the Lake Champlain Basin Management Plan’s *Opportunities for Action* by educating guests about the issues that face the Basin, with particular emphasis on the Plan’s four priorities:
  1. Reduce phosphorus inputs to Lake Champlain to promote a healthy and diverse ecosystem and provide for sustainable human use and enjoyment of the Lake.
  2. Reduce toxic contamination to protect public health and the Lake Champlain ecosystem.
  3. Minimize the risks to humans from water-related health hazards in the Lake Champlain Basin.
  4. Control the introduction, spread, and impact of nonnative nuisance species in order to preserve the integrity of the Lake Champlain ecosystem.

We will work towards accomplishing these goals primarily through the following programs and exhibits:

## **PROGRAM DESCRIPTIONS**

### **ECHO’s Open Door Access Program:**

ECHO’s Open Door, launched in the fall of 2005, includes a wide spectrum of programs designed to reduce the cultural, financial and geographic barriers of visiting ECHO. Developed in collaboration with community partners, this multi-faceted access program has met with great success during its first months and continues to grow on a daily basis. Our community partners have encouraged us to continue all aspects of ECHO’s Open Door. The following summarizes the components of the program.

### **ECHO Access for Social Service Organizations**

#### **Program Summary:**

Continue to distribute discount admission vouchers through regional social service agency partners to youth, senior citizens, people with disabilities, and low income community members. Working with agencies that have a strong and trusted relationship with these constituencies enhances visitor comfort level and encourages them to experience a place that they might not otherwise visit. Organizations wishing to be part of ECHO’s Open Door access program are evaluated for program fit. Each agency completes a partnership agreement which allows ECHO to better understand the organization’s mission and client needs and to train our staff and volunteers on how to welcome guests and interpret exhibits to maximize their comfort level. Clients often visit ECHO in peer groups accompanied by familiar agency staff or individually with their own mentors. Agencies can assess the needs of their constituents and use the vouchers accordingly either distributing them to individuals who visit ECHO on their own or using



Dream Program Inc.  
Early Childhood Connection/Even Start  
Essex CHIPS  
Foster Grandparents Program  
Greater Burlington YMCA  
HomeShare Vermont  
Howard Center For Human Services

Vermont Cares  
Vermont Children's Aid Society  
Vietnamese Association  
VNA Family Room  
VT Refugee Resettlement Program  
Winooski Family Center  
Women Helping Battered Women  
YWCA of Vermont

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Libraries that have had patrons visit ECHO:

Addison Central School Library  
Albert D. Lawton School Library  
Alburt Community Educational Center Library  
Aldrich Public Library  
Allen Brook School  
AuSable Forks Free Library  
Bakersfield School Library

Middlebury College  
Middlebury Union High School Library  
Middletown Springs Public Library  
Mill River Union High School Library  
Milton Elementary School  
Milton Junior/Senior High School Library  
Milton Public Library

Fairfax Community Library	Shelburne Community School
Fayston Elementary School Library	Sherburne Elementary School Library
Ferrisburgh Central School Library	Sherburne Memorial Library
Fletcher Free Library	Sherman Free Library
Founders Memorial School Library	Shrewsbury Library
Franklin Central School Library	Smilie Memorial School Library
Frederick H. Tuttle Middle School	South Burlington Community Library
Gary Memorial Library	South Hero Community Library
Georgia Elementary & Middle School Library	St. Albans City Elementary School
Georgia Public Library	St. Albans Free Library
Glover Public Library	St. Joseph's Elementary School
Grand Isle Elementary School Library	Starksboro Public Library
Grand Isle Free Library	Sterling College
Greensboro Free Library	Stowe Elementary School
Haston Library	Stowe Free Library
Hazen Union School Library	Sudbury Country School
Highgate Elementary School Library	Summit Street Elementary School Library
Hinesburg Community School Library	Swanton Central School Library
Huntington Public Library	Swanton Public Library
Hyde Park Elementary School	Tenney Memorial Library
Ilsley Public Library	Thatcher Brook Primary
Isle LaMotte School	Thatcher Brook Primary School Library
Jaquith Public Library	The Pember Library and Museum
Jericho Elementary School	Tinmouth School
Jericho Town Library	U-32 High School Library
Johnson Public Library	Underhill I.D. School
Johnson State College	Varnum Memorial Library
Joslin Memorial Library	Vergennes Union Elementary School
Keene Public Library	Vergennes Union Middle/High School
Kellogg-Hubbard Library	Wadhams Free Library
Lanpher Memorial Library	Warren Public Library
Lawrence Memorial Library	Washington Village School
Lincoln Library	Waterbury Public Library
Lincoln Public Library	Waterville Elementary School
Long Trail School Library	Wells Village School
Lowell Graded School	West Rutland Free Library
Lyman C. Hunt Middle School Library	Westford Library
Mater Christi School	Williston Central School
	Winooski Memorial Library



## **Mentoring Collaborations:**

### **Program Summary:**

ECHO is collaborating with MOBIUS Mentoring, Inc. to reach disadvantaged children throughout Chittenden County. Started in 2000 because of soaring school drop-out and heroin use rates in Burlington and neighboring Winooski, area community leaders launched Mobius Mentoring, Inc. as a mentor training, funding and support network to improve outcomes for youth in Chittenden County. ECHO participates in the Mobius Card program that offers discounts to many area activities for mentors and their mentees.

According to MOBIUS Mentoring, the discounted admission to ECHO helps them attract mentors because it offers fun and educational activities that they can share with their mentees at a reasonable cost. Their feedback to date is that we simplify the program by charging both mentors and mentees a \$2 admission fee similar to the social service agency vouchers. (Currently, mentees receive free admission when accompanied by a paying mentor.)

### **Program Details:**

Offer three annual visits at the significantly reduced admission price of \$2 to up to 300 mentors and their mentees.

The components described above will supplement the following activities that are already in place and that are not part of this work plan:

#### **1. ECHO Basin Backyard Explorers—Access for Schools**

One of the most effective ways to help children learn about stewardship of the Lake Champlain Basin is through ECHO's school programs. ECHO has partnered with Hannaford Supermarkets to launch the Hannaford ECHO Basin Backyard Explorers, an experiential program for K through 8<sup>th</sup> graders based on the Vermont Framework of Standards. Now in its third year, the program includes discounted student admission, free adult admissions, a free class with an ECHO educator, and a free return class visit during the ECHO Earth Weeks Student Fair in April 2007.

#### **2. Science Play Preschool Enrichment Program**

*Science Play*, funded by the A.D. Henderson Foundation, will reach more than 300 Champlain Valley Head Start (CVHS) preschoolers in a combination of school site outreach visits, class field trips to ECHO, family visits to ECHO, and professional development for teacher-caregivers during the 2006-07 school year. The program will enhance science literacy for the neediest young children by teaching science and ecology through the proven approach of movement, music, stories, and age-specific art projects.

#### **3. ECHO Access Kids — After School Visits**

Youth agencies and home care providers who serve at least 50% low income children in after-school programming will be invited to schedule group trips to ECHO from 3pm – 5pm for up to 25 children and 5 adult chaperones per visit at the significantly reduced rate of \$2 per person. This program is funded by several private foundations.

mini-object theatres, visitors operate blood sucker-killing devices that trigger recorded messages from suckers presenting their positive attributes and reasons why they should continue to live. A can of repellant, a box of salt and a swatter all are ways to eliminate mosquitoes, leeches, and black flies. Visitors will also observe leech locomotion, sticking power, and adaptations to surviving in their aquatic habitat. A leech tank resembling a section of a typical New England pond, with rocks, logs, and aquatic plants will have special magnifiers to enable visitors to observe leeches sticking to the sides of the tank. *Jurassic New England* introduces visitors to pre-historic New England including dinosaurs in Massachusetts and ancient sea Ice Age creatures in Vermont. What can scientists learn from fossil footprints left all over New England? Visitors will see and touch some real fossils and meet some “living fossils” – animals and plants that have lived on earth since the time of the dinosaurs.

### **Permanent Exhibits:**

*Save the Frogs: Imperiled Amphibians* (working title) is a new exhibit under initial development that will help visitors explore connections between the Lake Champlain Basin and other watersheds around the world and better understand the impact of their behavior on the animal kingdom, and specifically on amphibians.

From the Amazon River Basin and California’s Sierra Nevada’s to Queensland in Australia and the Lake Champlain Basin, frogs around the world are in trouble. Habitat loss, pollution, and climate change pose chronic threats to amphibians. But a more acute threat, a tropical fungus that is spreading due to global warming, is calling herpetologists around the world to arms. Since 1990, scientists have referred to amphibians as canaries in the coal mine; the Global Amphibian Assessment (GAA) shows that the canaries (amphibians) are dying. The Amphibian Conservation Summit that took place in Washington D.C. in September 2004 framed the gravity of the situation with statistics and new research.

Based on this current research, the global nature of the problem, and the international exhibit development work ECHO has done with LakeNet in the past, ECHO plans to develop a new permanent exhibit that explores frogs around the world and the daily challenges they face brought on by human behaviors. ECHO will expand its live animal collection beyond the Lake Champlain Basin by highlighting live tropical frogs that are the “poster children” for biodiversity and bio-indicator species for environmental health. ECHO also will explore the connections to the local Lake Champlain Basin frog populations and species that may relate to international LakeNet basins. In conjunction with other organizations such as National Wildlife Federation (NWF), VT DEC – Water Quality Division, and Vermont Public Interest Research Group (VPIRG), ECHO will tell the story of citizens participating in local environmental monitoring. The exhibit will include live habitats, interactive components including new web pages that engage our guests in the issues, research, and stewardship.



leaves a lasting impression. For example, the game Web of Life, appropriate for any age group, teaches about the interdependence between all living things. Participants take on the roles of animals and plants within the Basin and create a web out of string that illustrates different “what-if” scenarios: If a pesticide harms a particular plant or animal, how would other plants and animals and their habitats be affected?

#### **ECHO Treks:**

These self-guided, scavenger hunts help direct the visitor learning experience. There are treks suitable for four age-levels, each from based on ECHO’s themes of ecology, culture, history and opportunity for stewardship. Young visitors will draw, count, read, inquire, estimate and write as they explore ECHO’s exhibits.

#### **Story Time:**

These weekly presentations include stories and activities about animals, water, habitats and a whole range of science and cultural learning for younger audiences. Over the past year, our Tuesday morning story time has become enormously popular with a regular, growing group of attendees.

#### **Current Waves Work Bench:**

The Current Wave Workbench was developed in conjunction with LakeNet to allow visitors to experiment and explore concepts about the Lake Champlain Basin and watersheds around the world. The Workbench, a free standing cart-like structure, allows exhibit interpreters to interact one-on-one or with small audiences using graphics, media, artifacts, and hands-on activities. Work Bench topics are created to support traveling exhibits, new permanent exhibits and seasonal themes. Their role is to provide a cost-effective way to quickly respond to emerging current science issues.

#### **Volunteer Interactions:**

Our ability to interact with guests throughout their ECHO experience requires the talents of hundreds of volunteers. Volunteer Exhibit Interpreters receive ongoing training and support to keep them up-to-date on current Basin issues, our changing exhibit experience including traveling exhibits, Work Bench topics, and animal husbandry.

#### **Live Animal Exhibit Upkeep and Maintenance:**

Our Animal Ambassadors represent much of what is unique about ECHO. It is critical that we provide them with round-the-clock care and house them in the best of habitats. This requires the skills of our trained Animal Care staff and many volunteers who assist with daily animal husbandry. It also necessitates state-of-the-art aquaria, filtration systems, and natural habitats. Our interactive guest experience also requires extensive care to keep exhibits in good working order and to supply the props and materials for demonstrations and activities.

## **PROGRAM EVALUATION**

### **ECHO's Open Door Access Program**

The evaluation of this program has already begun and some of the feedback received to date has been incorporated in the proposed 2006 plan. Because this is a community-based program, evaluation requires an analysis of how the community responds to the opportunity and of its regional impacts. We are asking questions such as:

- How have libraries utilized the annual pass program to build interest in the library, its programs, and the Lake?
- How does geographic distance from ECHO, librarian support and size and scope of the community impact the use of the Library ECHO Pass program?
- Which types of social service agencies found the Day Pass program most useful?
- How did the agencies integrate the Day Pass program with their other programs?
- How did the program inspire new stewardship programs to evolve in any of the programs offered by our community partners?

These and other questions are driving the evaluation of ECHO's Open Door access program. We keep in ongoing contact with our partners and have used the formative information to alter programs as needed. We will also collect summative evaluation information through surveys, phone interviews, and focus groups. This traditionally qualitative information will be at the core of our evaluation, supplemented with the statistics of visitor ship and use patterns.

### **ECHO Exhibits and Programs**

The exhibits and programs of ECHO are evaluated on a regular basis with the support of our partnership with the University of Vermont (UVM). We use UVM survey teams to evaluate the impact of new programs and exhibits, identify seasonal trends, and receive honest guest feedback through an independent source.

## **ECHO IN-KIND MATCH**

ECHO will provide in-kind matching support for this grant in the amount of \$261,668 based on personnel and indirect costs that are not already charged to this project.


## **SUMMARY**

ECHO will use the EPA grant to strengthen our stewardship message and further support the *Opportunities for Action* as stated in the Lake Champlain Basin Management Plan. Public involvement is critical to achieving the goals outlined in the plan and protecting



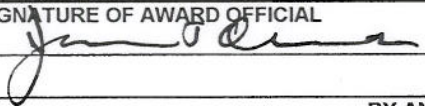
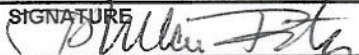
cc - Jim  
- P.O.

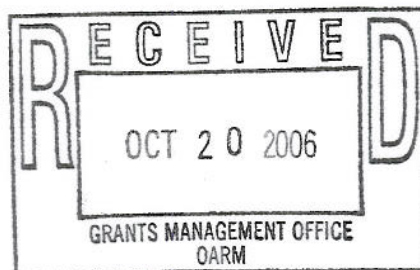
in 161017  
10/25

	<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b>  <b>Grant Agreement</b>		ASSISTANCE ID NO.			<b>DATE OF AWARD</b> 9/21/06 <b>MAILING DATE</b> 9/28/06 <b>ACH#</b>
			PRG	DOC ID	AMEND#	
			LC -	97144701	- 2	
			TYPE OF ACTION Augmentation: Increase			
<b>RECIPIENT TYPE:</b> Non-Profit Organization			<b>Send Payment Request to:</b> Grants Management Office - Region 1			<b>PAYEE:</b> Lake Champlain Basin Science Center One College Street Burlington, VT 05401
<b>RECIPIENT:</b> Lake Champlain Basin Science Center One College Street Burlington, VT 05401 EIN: 03-0347288			<b>PAYEE:</b> Lake Champlain Basin Science Center One College Street Burlington, VT 05401			
<b>PROJECT MANAGER</b>		<b>EPA PROJECT OFFICER</b>		<b>EPA GRANT SPECIALIST</b>		
Luanne Cantor One College Street Burlington, VT 05401 E-Mail: lcantor@echovermont.org Phone: 802-864-1848 X103		Erik Beck 1 Congress Street, Suite 1100, CWN Boston, MA 02114-2023 E-Mail: Beck.Erik@epamail.epa.gov Phone: 617-918-1606		Janet Bartlett Grants Management Office, MGM E-Mail: Bartlett.Janet@epamail.epa.gov Phone: 617-918-1972		
<b>PROJECT TITLE AND EXPLANATION OF CHANGES</b> ECHO at the Leahy Center for Lake Champlain Increase of Funds in the amount of \$689,385 to support the Lake Champlain Basin Program. This award will help accomplish these goals: * Broaden outreach and education about the Lake Champlain Basin to underserved members of the community; * Create programs and exhibits that build community awareness of the value of the Lake Champlain Basin; * Support the Lake Champlain Basin Management Plan's Opportunities for Action by educating guests about the issues that face the Basin, with particular emphasis on the Plan's priorities: Reduce phosphorus inputs to Lake Champlain to promote a healthy and diverse ecosystem and provide for sustainable human use and enjoyment of the Lake. Reduce toxic contamination to protect public health and the Lake Champlain ecosystem.						
<b>BUDGET PERIOD</b> 10/01/2005 - 03/31/2008		<b>PROJECT PERIOD</b> 10/01/2005 - 03/31/2008		<b>TOTAL BUDGET PERIOD COST</b> \$1,810,658.00		<b>TOTAL PROJECT PERIOD COST</b> \$1,810,658.00

### NOTICE OF AWARD

Based on your application dated 07/21/2006, including all modifications and amendments, the United States acting by and through the US Environmental Protection Agency (EPA), hereby awards \$689,385. EPA agrees to cost-share 73.69% of all approved budget period costs incurred, up to and not exceeding total federal funding of \$1,334,250. Such award may be terminated by EPA without further cause if the recipient fails to provide timely affirmation of the award by signing under the Affirmation of Award section and returning all pages of this agreement to the Grants Management Office listed below within 21 days after receipt, or any extension of time, as may be granted by EPA. This agreement is subject to applicable EPA statutory provisions. The applicable regulatory provisions are 40 CFR Chapter 1, Subchapter B, and all terms and conditions of this agreement and any attachments.

<b>ISSUING OFFICE (GRANTS MANAGEMENT OFFICE)</b>		<b>AWARD APPROVAL OFFICE</b>	
<b>ORGANIZATION / ADDRESS</b>		<b>ORGANIZATION / ADDRESS</b>	
EPA New England 1 Congress Street, Suite 1100 Boston, MA 02114-2023		U.S. EPA, EPA New England 1 Congress Street, Suite 1100 Boston, MA 02114-2023	
<b>THE UNITED STATES OF AMERICA BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY</b>			
<b>SIGNATURE OF AWARD OFFICIAL</b>		<b>TYPED NAME AND TITLE</b>	
		James T. Owens, III, Dir. Office of Administration and Resource Mgmt.	
<b>DATE</b>		<b>DATE</b>	
9.21.06		9.21.06	
<b>AFFIRMATION OF AWARD</b>			
<b>BY AND ON BEHALF OF THE DESIGNATED RECIPIENT ORGANIZATION</b>			
<b>SIGNATURE</b>		<b>TYPED NAME AND TITLE</b>	
		Phelan Fretz, Executive Director	
<b>DATE</b>		<b>DATE</b>	
10/16/06		10/16/06	



LC - 97144701 - 2 Page 2

FUNDS	FORMER AWARD	THIS ACTION	AMENDED TOTAL
EPA Amount This Action	\$ 644,865	\$ 689,385	\$ 1,334,250
EPA In-Kind Amount	\$ 0	\$	\$ 0
Unexpended Prior Year Balance	\$ 0	\$	\$ 0
Other Federal Funds	\$ 0	\$	\$ 0
Recipient Contribution	\$ 214,740	\$ 261,668	\$ 476,408
State Contribution	\$ 0	\$	\$ 0
Local Contribution	\$ 0	\$	\$ 0
Other Contribution	\$ 0	\$	\$ 0
Allowable Project Cost	\$ 859,605	\$ 951,053	\$ 1,810,658

Assistance Program (CFDA)	Statutory Authority	Regulatory Authority
66.481 - Lake Champlain Basin Program	Clean Water Act: Sec. 120	40 CFR PART 30

Fiscal									
Site Name	DCN	FY	Approp. Code	Budget Organization	PRC	Object Class	Site/Project	Cost Organization	Obligation / Deobligation
-	LZC045	0607	B	01L	403B66D	4183	-	-	345,000
-	LZC045	0607	B	0100ABU	403B66D	4183	-	-	344,385
									689,385



## Budget Summary Page

Table A - Object Class Category (Non-construction)	Total Approved Allowable Budget Period Cost
1. Personnel	\$890,568
2. Fringe Benefits	\$175,716
3. Travel	\$1,750
4. Equipment	\$0
5. Supplies	\$73,859
6. Contractual	\$56,974
7. Construction	\$0
8. Other	\$375,253
9. Total Direct Charges	\$1,574,120
10. Indirect Costs: % Base	\$236,538
11. Total (Share: Recipient <u>26.31</u> % Federal <u>73.69</u> %.)	\$1,810,658
12. Total Approved Assistance Amount	\$1,334,250
13. Program Income	\$0
14. Total EPA Amount Awarded This Action	\$689,385
15. Total EPA Amount Awarded To Date	\$1,334,250

## **Administrative Conditions**

All previous Administrative Conditions Remain the Same.

### **1. INDIRECT COST REQUIREMENT - NON-PROFIT ORGAIZATIONS**

If the recipient does not have a previously established indirect cost rate, it agrees to prepare and submit its indirect cost rate proposal in accordance with the appropriate federal cost principle, OMB Circular A-122, "Cost Principles for Non-Profit Organizations" or OMB Circular A-21, "Cost Principles for Educational Institutions."

The recipient must send its proposal to its cognizant federal agency within ninety (90) days from the effective date of the award for this assistance agreement. If EPA is the cognizant federal agency of either the educational institution or the non-profit organization, the recipient must send its indirect cost rate proposal within ninety (90) days from the effective date of the award to:

#### **Regular Mail**

Grants Administration Division  
Office of Grants and Debarment  
U.S. Environmental Protection Agency  
1200 Pennsylvania Avenue, NW, MC 3903R  
Washington, DC 20460  
Attn: OGD Indirect Cost Rate Proposal Control Desk

#### **Mail Courier (e.g. FedEx, UPS, etc.)**

Grants Administration Division  
Office of Grants and Debarment  
U.S. Environmental Protection Agency  
1300 Pennsylvania Avenue, NW, 5th floor  
Washington, DC 20004  
Attn: OGD Indirect Cost Rate Proposal Control Desk

Electronic submissions of proposals may be mailed to [OGD\\_IndirectCost@epa.gov](mailto:OGD_IndirectCost@epa.gov).

The non-profit recipient agrees to follow the enclosed "Sample Indirect Cost Proposal Format for Nonprofit Organizations." The sample proposal may also be accessed at:

<http://www.epa.gov/ogd/recipient/sample1.htm>. Another resource is the "EPA Guide on How to Prepare an Indirect Cost Rate Proposal for a Non-Profit Organization," and may be found at <http://www.epa.gov/ogd/recipient/indirect.htm>.

Additionally, the non-profit recipient must submit its indirect cost rate proposal (including audited proposals) for approval to the address above, if all of the following three conditions apply: (1) Recipient had an active EPA contract or grant(s) after June 1, 1998; (2) EPA was its cognizant



agency for indirect cost rate negotiation and approval during that time; and (3) recipient did not have an approved indirect cost rate for that period.

Recipients are entitled to reimbursement of indirect costs, subject to any statutory or regulatory administrative cost limitations, if they have a current rate agreement or have submitted an indirect cost rate proposal to their cognizant federal agency for review and approval. Recipients are responsible for maintaining an approved indirect cost rate. Recipients with differences between their provisional rates and final rates are not entitled to more than the award amount, without EPA approval.

Pursuant to 40 CFR 30.26, the non-profit recipient (including non-profit institutions of higher education) agrees to comply with the audit requirements prescribed in the Single Audit Act Amendments, and revised OMB Circular A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

### **Programmatic Conditions**

All Programmatic Conditions Remain the Same except for the following:

#### **CARE OF AQUARIUM ANIMALS FOR PUBLIC EXHIBITION**

Recipient agrees to comply with the Animal Welfare Act of 1966 (P.L. 89-544), as amended, 7 USC 2131-2156. Recipient also agrees to abide by the "U.S. Government Principles for the Utilization and Care of Vertebrate Animals used in Testing, Research, and Training." (Federal Register 50(97): 20864-20865. May 20, 1985) as applicable to the care of aquarium animals. The nine principles can be viewed at: <http://www.nal.usda.gov/awic/pubs/IACUC/vert.htm>. For additional information about the Principles, the recipient should consult the *Guide for Care and Use of Laboratory Animals*, prepared by the Institute of Laboratory Animal Resources, National Research Council and can be accessed at: <http://www.nap.edu/readingroom/books/labrats/>.

#### **Copyrighted Material**

In accordance with 40 CFR 31.34 for State, local and Indian Tribal governments or 40 CFR 30.36 for other recipients, EPA has the right to reproduce, publish, use, and authorize others to use copyrighted works or other data developed under this assistance agreement for Federal purposes. Examples of Federal purpose include but are not limited to:

- (6) Limited use by other grantees to carry out Federal grants provided the use is consistent with the terms of EPA's authorization to the other grantee to use the copyrighted works or other data. Under Item 6, the grantee acknowledges that EPA may authorize another grantee(s) to use the copyrighted works or other data developed under this grant as a result of:
  - a. the selection of another grantee by EPA to perform a project that will involve the use of the copyrighted works or other data or
  - b. termination or expiration of this agreement.

In addition, EPA may authorize another grantee to use copyrighted works or other data developed with Agency funds provided under this grant to perform another grant when such use promotes efficient and effective use of Federal grant funds.



Due Date: 11/28/2007

Response	Approver	Date
Approve	Cathy Ivanoski	11/26/2007

**Fund Certifying Official Signature**

Fund Certifying EPA R1  
Official Region:

Fund Certifying Ruben Neira  
Official:

Title: Funds Certifying Official

Phone: 617-918-1939

Delegate: David Tornstrom

Title: Funds Certifying Official

Phone: 617-918-1135

Fund Certifying Official Signature: - Signed by Ruben Neira/R1/USEPA/US on 11/27/2007 03:25:03 PM, according to /USEPA/US

**Project Officer**

Approving Region: EPA R1

Project Officer: Erik Beck

PO Phone: 617-918-1606

**Grant Specialist**

Grant Specialist: Brian Tocci

**Funding Recommendation**

ECHO at the Leahy Ctr for Lake Champlain

\$250,000

Final

**Origination Information**

**Notifications History**

**REQUEST FOR NO COST AMENDMENT**

Recipient: *Lake Champlain Science Center [echo]*  
Title of Project/Program :  
Date of Application/Letter: *5 Sept 2010*

Agreement # *LC-97144701-5 F*

**CHANGES REQUIRING FORMAL WRITTEN APPROVAL (complete all that apply):  
(40 CFR 30.25 and 40 CFR 31.30)**

☒ **TIME EXTENSION:**

Current Project/Budget Period Dates *10/01/2005* to *9/30/2010*  
New Project /Budget Period Dates *10/01/2005* to *May 31, 2011*

*in 1605  
FV  
9/22/10*

Note: EP&M funds expire after 5 years. Do not extend any project using EP&M funds beyond the 5 years. *most recent funds were O&M funds*

☐ **REVISED SCOPE OF WORK (DESCRIPTION):**

☐ **OBJECT CLASS REBUDGETING**

Complete the revised budget by object class categories on page 2.

☐ **OTHER CHANGES (SPECIFY):**

**JUSTIFICATION FOR THE FORMAL CHANGE(S):** Attach additional pages, if needed.

*See attached.*

Note: Please send the programmatic term and condition via LAN to Grants Specialist, if necessary.

**Project Officer:** *Eric Becic*

**THRU:** (optional)





UP 7/22/08

	<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b>  <b>Assistance Amendment</b>	ASSISTANCE ID NO.			DATE OF AWARD 07/07/2008
		PRG	DOC ID	AMEND#	
		LC - 97144701 - 4			
		TYPE OF ACTION Augmentation: Increase			MAILING DATE 07/14/2008
PAYMENT METHOD: Advance			ACH# 10182		
RECIPIENT TYPE: Not for Profit		Send Payment Request to: Las Vegas Finance Center P.O. Box 98515 Las Vegas, NV 89193-8515 Tel: (702) 798-2406 Fax: (702) 798-2423			
RECIPIENT: Lake Champlain Basin Science Center One College Street Burlington, VT 05401 EIN: 03-0347288		PAYEE: Lake Champlain Basin Science Center One College Street Burlington, VT 05401			
PROJECT MANAGER Dr. Chris Andrew Miller One College Street Burlington, VT 05401 E-Mail: cmiller@echovermont.org Phone: 802-864-1848X103		EPA PROJECT OFFICER Erik Beck 1 Congress Street, Suite 1100, CWN Boston, MA 02114-2023 E-Mail: Beck.Erik@epamail.epa.gov Phone: 617-918-1606		EPA GRANT SPECIALIST Cheryll Scott Grants Management Office-MGM E-Mail: Scott.Cheryll@epamail.epa.gov Phone: 617-918-1174	

RECEIVED  
 JUL 22 2008  
 GRANTS MANAGEMENT OFFICE

**PROJECT TITLE AND EXPLANATION OF CHANGES**

ECHO at the Leahy Center for Lake Champlain  
 Amendment #4 approves a Supplemental Increase in Funds in the amount of \$910,667, in which \$683,000 is Federal Dollars. A Budget/Project Period extension until 9/30/2010 is also approved. EPA Grants Specialist has been changed. Administrative Term and Condition #11 (MBE/WBE Fair Share) from the Original Award has been updated. Term and Condition #14 (Trafficking Victims Protection Act) has been added. All other Terms and Conditions remain unchanged, and in full force and effect.

BUDGET PERIOD 10/01/2005 - 09/30/2010	PROJECT PERIOD 10/01/2005 - 09/30/2010	TOTAL BUDGET PERIOD COST \$3,054,659.00	TOTAL PROJECT PERIOD COST \$3,054,659.00
--	---	--	---

**NOTICE OF AWARD**

Based on your application dated 05/22/2008, including all modifications and amendments, the United States acting by and through the US Environmental Protection Agency (EPA), hereby awards \$683,000. EPA agrees to cost-share 74.22% of all approved budget period costs incurred, up to and not exceeding total federal funding of \$2,267,250. Such award may be terminated by EPA without further cause if the recipient fails to provide timely affirmation of the award by signing under the Affirmation of Award section and returning all pages of this agreement to the Grants Management Office listed below within 21 days after receipt, or any extension of time, as may be granted by EPA. This agreement is subject to applicable EPA statutory provisions. The applicable regulatory provisions are 40 CFR Chapter 1, Subchapter B, and all terms and conditions of this agreement and any attachments.


ISSUING OFFICE (GRANTS MANAGEMENT OFFICE)	AWARD APPROVAL OFFICE
ORGANIZATION / ADDRESS EPA New England 1 Congress Street, Suite 1100  Boston, MA 02114-2023	ORGANIZATION / ADDRESS U.S. EPA, EPA New England  1 Congress Street, Suite 1100 Boston, MA 02114-2023

**THE UNITED STATES OF AMERICA BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY**

SIGNATURE OF AWARD OFFICIAL Digital signature applied by EPA Award Official	TYPED NAME AND TITLE Linda Murphy, Director, Office of Administration & Resource Management	DATE 07/07/2008
--	--	--------------------

**AFFIRMATION OF AWARD**

**BY AND ON BEHALF OF THE DESIGNATED RECIPIENT ORGANIZATION**

SIGNATURE 	TYPED NAME AND TITLE Dr. Phelan R. Fretz, Executive Director	DATE 7/17/08
---	---	-----------------

LC - 97144701 - 4 Page 2

FUNDS	FORMER AWARD	THIS ACTION	AMENDED TOTAL
EPA Amount This Action	\$ 1,584,250	\$ 683,000	\$ 2,267,250
EPA In-Kind Amount	\$ 0	\$	\$ 0
Unexpended Prior Year Balance	\$ 0	\$	\$ 0
Other Federal Funds	\$ 0	\$	\$ 0
Recipient Contribution	\$ 559,742	\$ 227,667	\$ 787,409
State Contribution	\$ 0	\$	\$ 0
Local Contribution	\$ 0	\$	\$ 0
Other Contribution	\$ 0	\$	\$ 0
Allowable Project Cost	\$ 2,143,992	\$ 910,667	\$ 3,054,659

Assistance Program (CFDA)	Statutory Authority	Regulatory Authority
66.481 - Lake Champlain Basin Program	Clean Water Act: Sec. 120	40 CFR PART 30

Fiscal									
Site Name	Req No	FY	Approp. Code	Budget Organization	PRC	Object Class	Site/Project	Cost Organization	Obligation / Deobligation
-	0801LZC041	0809	B	01L	403B66E	4183			683,000
									683,000



## Budget Summary Page

Table A - Object Class Category (Non-construction)	Total Approved Allowable Budget Period Cost
1. Personnel	\$1,175,637
2. Fringe Benefits	\$249,834
3. Travel	\$1,750
4. Equipment	\$0
5. Supplies	\$153,059
6. Contractual	\$81,215
7. Construction	\$0
8. Other	\$860,846
9. Total Direct Charges	\$2,522,341
10. Indirect Costs: % Base	\$532,318
11. Total (Share: Recipient <u>25.78</u> % Federal <u>74.22</u> %.)	\$3,054,659
12. Total Approved Assistance Amount	\$2,267,250
13. Program Income	\$0
14. Total EPA Amount Awarded This Action	\$683,000
15. Total EPA Amount Awarded To Date	\$2,267,250

## **Administrative Conditions**

All Administrative Conditions Remain the Same except for the following: Term and Condition #11 is updated. Term and Condition #14 is added.

### **11. UTILIZATION OF SMALL, MINORITY AND WOMEN'S BUSINESS ENTERPRISES**

#### **GENERAL COMPLIANCE, 40 CFR, Part 33**

The recipient agrees to comply with the requirements of EPA's Program for Utilization of Small, Minority and Women's Business Enterprises in procurement under assistance agreements, contained in 40 CFR, Part 33.

#### **FAIR SHARE OBJECTIVES, 40 CFR, Part 33, Subpart D**

A recipient must negotiate with the appropriate EPA award official, or his/her designee, fair share objectives for MBE and WBE (MBE/WBE) participation in procurement under the financial assistance agreements.

##### **Accepting the Fair Share Objectives/Goals of Another Recipient**

The dollar amount of this assistance agreement is \$250,000, or more; or the total dollar amount of all of the recipient's non-TAG assistance agreements from EPA in the current fiscal year is \$250,000, or more. The recipient accepts the applicable MBE/WBE fair share objectives/goals negotiated with EPA by the **Vermont Department of Environmental Conservation** as follows:

MBE: CONSTRUCTION \_1%\_; SUPPLIES \_1%\_; SERVICES \_1%\_; EQUIPMENT \_1%\_

WBE: CONSTRUCTION \_1%\_; SUPPLIES \_1%\_; SERVICES \_1%\_; EQUIPMENT \_1%\_

By signing this financial assistance agreement, the recipient is accepting the fair share objectives/goals stated above and attests to the fact that it is purchasing the same or similar construction, supplies, services and equipment, in the same or similar relevant geographic buying market as **Vermont Department of Environmental Conservation**.

##### **Negotiating Fair Share Objectives/Goals, 40 CFR, Section 33.404**

The recipient has the option to negotiate its own MBE/WBE fair share objectives/goals. If the recipient wishes to negotiate its own MBE/WBE fair share objectives/goals, the recipient agrees to submit proposed MBE/WBE objectives/goals based on an availability analysis, or disparity study, of qualified MBEs and WBEs in their relevant geographic buying market for construction, services, supplies and equipment.

The submission of proposed fair share goals with the supporting analysis or disparity study means that the recipient is **not** accepting the fair share objectives/goals of another recipient. The recipient agrees to submit proposed fair share objectives/goals, together



with the supporting availability analysis or disparity study, to the Regional MBE/WBE Coordinator within 120 days of its acceptance of the financial assistance award. EPA will respond to the proposed fair share objective/goals within 30 days of receiving the submission. If proposed fair share objective/goals are not received within the 120 day time frame, the recipient may not expend its EPA funds for procurements until the proposed fair share objective/goals are submitted.

#### **SIX GOOD FAITH EFFORTS, 40 CFR, Part 33, Subpart C**

Pursuant to 40 CFR, Section 33.301, the recipient agrees to make the following good faith efforts whenever procuring construction, equipment, services and supplies under an EPA financial assistance agreement, and to ensure that sub-recipients, loan recipients, and prime contractors also comply. Records documenting compliance with the six good faith efforts shall be retained:

- (a) Ensure DBEs are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities. For Indian Tribal, State and Local and Government recipients, this will include placing DBEs on solicitation lists and soliciting them whenever they are potential sources.
- (b) Make information on forthcoming opportunities available to DBEs and arrange time frames for contracts and establish delivery schedules, where the requirements permit, in a way that encourages and facilitates participation by DBEs in the competitive process. This includes, whenever possible, posting solicitations for bids or proposals for a minimum of 30 calendar days before the bid or proposal closing date.
- (c) Consider in the contracting process whether firms competing for large contracts could subcontract with DBEs. For Indian Tribal, State and local Government recipients, this will include dividing total requirements when economically feasible into smaller tasks or quantities to permit maximum participation by DBEs in the competitive process.
- (d) Encourage contracting with a consortium of DBEs when a contract is too large for one of these firms to handle individually.
- (e) Use the services and assistance of the SBA and the Minority Business Development Agency of the Department of Commerce.
- (f) If the prime contractor awards subcontracts, require the prime contractor to take the steps in paragraphs (a) through (e) of this section.

#### **MBE/WBE REPORTING, 40 CFR, Part 33, Sections 33.502 and 33.503**

The recipient agrees to complete and submit EPA Form 5700-52A, "MBE/WBE Utilization Under Federal Grants, Cooperative Agreements and Interagency Agreements" beginning with the Federal fiscal year reporting period the recipient receives the award, and continuing until the project is completed. **Only procurements with certified MBE/WBEs are counted toward a recipient's MBE/WBE accomplishments.** The

reports must be submitted **semiannually** for the periods ending March 31<sup>st</sup> and September 30<sup>th</sup> for:

Recipients of financial assistance agreements that capitalize revolving loan programs (CWSRF, DWSRF, Brownfields); and

All other recipients not identified as annual reporters (40 CFR Part 30 and 40 CFR Part 35, Subpart A and Subpart B recipients are annual reporters).

**The reports are due within 30 days of the end of the semiannual reporting periods (April 30<sup>th</sup> and October 30<sup>th</sup>). Reports should be sent to:**

**U.S. Environmental Protection Agency  
One Congress Street, Suite 1100 (MGM)  
Boston, MA 02114  
Attn: Ms. Valerie Bataille, Disadvantaged Business Utilization Program Manager**

**Final MBE/WBE reports must be submitted within 90 days after the project period of the grant ends. Your grant cannot be officially closed without all MBE/WBE reports.**

EPA Form 5700-52A may be obtained from the EPA Office of Small Business Program's Home Page on the Internet at [www.epa.gov/osbp](http://www.epa.gov/osbp).

#### **CONTRACT ADMINISTRATION PROVISIONS, 40 CFR, Section 33.302**

The recipient agrees to comply with the contract administration provisions of 40 CFR, Section 33.302.

#### **BIDDERS LIST, 40 CFR, Section 33.501(b) and (c)**

Recipients of a Continuing Environmental Program Grant or other annual reporting grant, agree to create and maintain a bidders list. Recipients of an EPA financial assistance agreement to capitalize a revolving loan fund also agree to require entities receiving identified loans to create and maintain a bidders list if the recipient of the loan is subject to, or chooses to follow, competitive bidding requirements. Please see 40 CFR, Section 33.501 (b) and (c) for specific requirements and exemptions.

#### **14. To implement requirements of Section 106 of the Trafficking Victims Protection Act of 2000, as amended, the following provisions apply to this award:**

a. We, as the Federal awarding agency may unilaterally terminate this award, without penalty, if a subrecipient that is a private entity: (1) is determined to have violated an applicable prohibition in the Prohibition Statement below; or (2) has an employee who is determined by the agency official authorized to terminate the award to have violated an applicable prohibition in the Prohibition Statement below through conduct that is either: (a) associated with performance under this award; or (b) imputed to the subrecipient using the standards and due process for



imputing the conduct of an individual to an organization that are provided in 2 CFR part 180, "OMB Guidelines to Agencies on Governmentwide Debarment and Suspension (Nonprocurement)," as implemented by our agency at 2 CFR part 1532. You must inform us immediately of any information you receive from any source alleging a violation of a prohibition in the Prohibition Statement below.

b. Our right to terminate unilaterally that is described in paragraph a of this award term: (1) implements section 106(g) of the Trafficking Victims Protection Act of 2000 (TVPA), as amended (22 U.S.C. 7104(g)), and (2) is in addition to all other remedies for noncompliance that are available to us under this award.

c. You must include the requirements of the Prohibition Statement below in any subaward you make to a private entity.

Prohibition Statement - You as the recipient, your employees, subrecipients under this award, and subrecipients' employees may not engage in severe forms of trafficking in persons during the period of time that the award is in effect; procure a commercial sex act during the period of time that the award is in effect; or use forced labor in the performance of the award or subawards under the award.

### **Programmatic Conditions**

All Programmatic Conditions Remain the Same:

1) Recipient shall amend grant as needed to reflect all changes to the final indirect rate as applicable since the beginning of the project.

Grants Administration Division  
Office of Grants and Debarment  
U.S. Environmental Protection Agency  
1200 Pennsylvania Avenue, NW, MC 3903R  
Washington, DC 20460  
Attn: OGD Indirect Cost Rate Proposal Control Desk

Mail Courier (e.g. FedEx, UPS, etc.)

Grants Administration Division  
Office of Grants and Debarment  
U.S. Environmental Protection Agency  
1300 Pennsylvania Avenue, NW, 5th floor  
Washington, DC 20004  
Attn: OGD Indirect Cost Rate Proposal Control Desk

Electronic submissions of proposals may be mailed to OGD\_IndirectCost@epa.gov.

The non-profit recipient agrees to follow the enclosed "Sample Indirect Cost Proposal Format for Nonprofit Organizations." The sample proposal may also be accessed at:

<http://www.epa.gov/ogd/recipient/sample1.htm>. Another resource is the "EPA Guide on How to Prepare an Indirect Cost Rate Proposal for a Non-Profit Organization," and may be found at <http://www.epa.gov/ogd/recipient/indirect.htm>.

Additionally, the non-profit recipient must submit its indirect cost rate proposal (including audited proposals) for approval to the address above, if all of the following three conditions apply: (1) Recipient had an active EPA contract or grant(s) after June 1, 1998; (2) EPA was its cognizant agency for indirect cost rate negotiation and approval during that time; and (3) recipient did not have an approved indirect cost rate for that period.

Recipients are entitled to reimbursement of indirect costs, subject to any statutory or regulatory administrative cost limitations, if they have a current rate agreement or have submitted an indirect cost rate proposal to their cognizant federal agency for review and approval. Recipients are responsible for maintaining an approved indirect cost rate. Recipients with differences between their provisional rates and final rates are not entitled to more than the award amount, without EPA approval.

Pursuant to 40 CFR 30.26, the non-profit recipient (including non-profit institutions of higher education) agrees to comply with the audit requirements prescribed in the Single Audit Act Amendments, and revised OMB Circular A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

#### **4. LOBBYING - ALL RECIPIENTS**

The recipient agrees to comply with Title 40 CFR Part 34, *New Restrictions on Lobbying*. The



The recipient agrees to submit an Interim Financial Status Report (FSR) (SF269) no later than 90 days after the close of the budget period. If the budget period is longer than one year, the report must be submitted annually, based on the anniversary date of the initial award. The recipient agrees to submit a final FSR no later than 90 days after the end of the project period. FSR's must be submitted to the Grants Management Office.

#### 8. ADVANCE METHOD OF PAYMENT

- a. Initial Advance. The recipient must request the initial advance payment on a SF270, Request for Advance or Reimbursement. The SF270 should be submitted to the Grants Information and Management Section. No payment will be made to the recipient until the executed assistance agreement is returned to the Grants Management Office.

The amount of the initial advance will be based on the recipient's projected cash requirements, not to exceed the first three months.

- b. Interim Payments. After the initial advance, the recipient agrees to submit a SF270, Request for Advance or Reimbursement to the Grants Management Office as costs are incurred on the assistance agreement. This request will report cumulative expenditures incurred under the assistance agreement and the recipient's projected cash requirements for the next advance period. Recipients are authorized and encouraged to request payment at least quarterly but no more frequently than monthly.
- c. The recipient agrees to sign and return the Standard Form 3881, ACH Vendor/Miscellaneous Payment Enrollment Form, to the Finance Office indicated on the memorandum dated June 30, 1998. As required by Public Law 104-134; Debt Collection Improvement Act of 1996, Electronic Fund Transfer payments will not be processed until this form has been received by the Finance Office.

#### 9. SMALL BUSINESS IN RURAL AREAS

If a recipient awards a contract under an assistance agreement, the recipient agrees and is required to utilize the following affirmative steps:

- a. Placing Small Business in Rural Area (SBRAs) on solicitation lists;
- b. Ensuring that SBRAs are solicited whenever they are potential sources;
- c. Dividing total requirements, when economically feasible, into small tasks or quantities to permit maximum participation by SBRAs;
- d. Establishing delivery schedules, where the requirements of work will permit, which would encourage participation by SBRAs;

Colleges and Universities.

- (b) For assistance agreements related to research under the Clean Air Act Amendments of 1990, the recipient agrees to ensure, to the fullest extent possible, that at least the applicable "fair share" objectives of Federal funds for prime contracts or subcontracts for supplies, construction, equipment or services are made available to organizations owned or controlled by socially and economically disadvantaged individuals, women, disabled Americans, Historically Black Colleges and Universities, Colleges and Universities having a student body in which 40% or more of the students are Hispanic, minority institutions having a minority student body of 50% or more, and private and voluntary organizations controlled by individuals who are socially and economically disadvantaged.
3. The recipient agrees to include in its bid documents the applicable "fair share" objectives and require all of its prime contractors to include in their bid documents for subcontracts the negotiated "fair share" percentages.
  4. The recipient agrees to follow the six affirmative steps or positive efforts stated in 40 CFR §30.44(b), 40 CFR §31.36(e), or 40 CFR §35.6580, as appropriate, and retain records documenting compliance.
  5. The recipient agrees to submit an EPA form 5700-52A "MBE/WBE Utilization Under Federal Grants, Cooperative Agreements and Interagency Agreements," beginning with the Federal fiscal year quarter the recipient receives the award and continuing until the project is completed. These reports must be submitted to:

U.S. Environmental Protection Agency  
Office of Administration and Resource Management  
Grants Management Office (MGM)  
1 Congress Street, Suite 1100  
Boston, MA 02114-2023

within 30 days of the end of the Federal fiscal quarter (January 30, April 30, July 30, and October 30). For assistance awards for continuing environmental programs and assistance awards with institutions of higher education, hospitals and other non-profit organizations, the recipient agrees to submit an EPA form 5700-52A to:

U.S. Environmental Protection Agency  
Office of Administration and Resource Management  
Grants Management Office (MGM)  
1 Congress Street, Suite 1100  
Boston, MA 02114-2023





**LEAHY CENTER**  
FOR LAKE CHAMPLAIN

ECOLOGY CULTURE HISTORY OPPORTUNITY

July 17, 2008

Mr. Brian Tocci  
Grant Specialist  
U.S. Environmental Protection Agency  
Grants Management office  
One Congress Street, Suite 1100-MGM  
Boston, MA 02114-2023

Re: The Lake Champlain Basin Science Center, Inc. EPA Award  
LC-97144701-4 Grant Amendment

Dear Brian:

Please find the signed award notice enclosed as per the instructions provided.



If there are any questions or issues, please don't hesitate to give me a call at 802-864-1848 X 103.

Sincerely,

A handwritten signature in cursive script that reads "Chris A. Miller".

Chris A. Miller, Ph.D., CPA  
Director of Finance

cc: Erik Beck  
EPA Project Officer

	<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b>  <b>Assistance Amendment</b>		ASSISTANCE ID NO.		DATE OF AWARD 12/26/2007	
			PRG	DOC ID		AMEND#
			LC - 97144701 - 3			
			TYPE OF ACTION Augmentation: Increase			MAILING DATE 01/02/2008
PAYMENT METHOD: Advance			ACH# 10182			
RECIPIENT TYPE: Not for Profit			Send Payment Request to: Las Vegas Finance Center P.O. Box 98515 Las Vegas, NV 89193-8515 Tel: (702) 798-2406 Fax: (702) 798-2423			
RECIPIENT: Lake Champlain Basin Science Center One College Street Burlington, VT 05401 EIN: 03-0347288			PAYEE: Lake Champlain Basin Science Center One College Street Burlington, VT 05401			
PROJECT MANAGER		EPA PROJECT OFFICER		EPA GRANT SPECIALIST		
Dr. Chris Andrew Miller One College Street Burlington, VT 05401 E-Mail: cmiller@echovermont.org Phone: 802-864-1848 X103		Erik Beck 1 Congress Street, Suite 1100, CWN Boston, MA 02114-2023 E-Mail: Beck.Erik@epamail.epa.gov Phone: 617-918-1606		Brian Tocci Grants Management Office, MGM, MGM E-Mail: Tocci.Brian@epamail.epa.gov Phone: 617-918-1979		
PROJECT TITLE AND EXPLANATION OF CHANGES ECHO at the Leahy Center for Lake Champlain Amendment #3 approves a Supplemental Increase of Funds in the total amount of \$333,334 (\$250,000 Federal), as well as a Time Extension to 3/31/2009, and changes in the workplan. EPA Grants Specialist has been updated. Administrative Term and Condition #7 (Unliquidated Obligations) and #8 (Advance Method of Payment) have been updated from the Original Award. Administrative Term and Condition #13 (Management Fees) has been added. All other Terms and Conditions remain unchanged, and in full force and effect.						
BUDGET PERIOD 10/01/2005 - 03/31/2009		PROJECT PERIOD 10/01/2005 - 03/31/2009		TOTAL BUDGET PERIOD COST \$2,143,992.00		
				TOTAL PROJECT PERIOD COST \$2,143,992.00		
<b>NOTICE OF AWARD</b>						
Based on your application dated 10/08/2007, including all modifications and amendments, the United States acting by and through the US Environmental Protection Agency (EPA), hereby awards \$250,000. EPA agrees to cost-share 73.89% of all approved budget period costs incurred, up to and not exceeding total federal funding of \$1,584,250. Such award may be terminated by EPA without further cause if the recipient fails to provide timely affirmation of the award by signing under the Affirmation of Award section and returning all pages of this agreement to the Grants Management Office listed below within 21 days after receipt, or any extension of time, as may be granted by EPA. This agreement is subject to applicable EPA statutory provisions. The applicable regulatory provisions are 40 CFR Chapter 1, Subchapter B, and all terms and conditions of this agreement and any attachments.						
ISSUING OFFICE (GRANTS MANAGEMENT OFFICE)			AWARD APPROVAL OFFICE			
ORGANIZATION / ADDRESS			ORGANIZATION / ADDRESS			
EPA New England 1 Congress Street, Suite 1100  Boston, MA 02114-2023			U.S. EPA, EPA New England  1 Congress Street, Suite 1100 Boston, MA 02114-2023			
THE UNITED STATES OF AMERICA BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY						
SIGNATURE OF AWARD OFFICIAL Digital signature applied by EPA Award Official		TYPED NAME AND TITLE Linda Murphy, Director, Office of Administration & Resource Management		DATE 12/26/2007		
<b>AFFIRMATION OF AWARD</b>						
BY AND ON BEHALF OF THE DESIGNATED RECIPIENT ORGANIZATION						
SIGNATURE 		TYPED NAME AND TITLE Dr. Phelan Fretz, Executive Director		DATE 1/14/08		





## Budget Summary Page

Table A - Object Class Category (Non-construction)	Total Approved Allowable Budget Period Cost
1. Personnel	\$859,730
2. Fringe Benefits	\$167,698
3. Travel	\$1,750
4. Equipment	\$0
5. Supplies	\$68,859
6. Contractual	\$81,215
7. Construction	\$0
8. Other	\$623,124
9. Total Direct Charges	\$1,802,376
10. Indirect Costs: % Base	\$341,616
11. Total (Share: Recipient <u>26.11</u> % Federal <u>73.89</u> %.)	\$2,143,992
12. Total Approved Assistance Amount	\$1,584,250
13. Program Income	\$0
14. Total EPA Amount Awarded This Action	\$250,000
15. Total EPA Amount Awarded To Date	\$1,584,250

### **13. Management Fees**

Management fees or similar charges in excess of the direct costs and approved indirect rates are not allowable. The term "management fees or similar charges" refers to expenses added to the direct costs in order to accumulate and reserve funds for ongoing business expenses, unforeseen liabilities, or for other similar costs which are not allowable under this assistance agreement. Management fees or similar charges may not be used to improve or expand the project funded under this agreement, except to the extent authorized as a direct cost of carrying out the scope of work.

### **Programmatic Conditions**

All Programmatic Conditions Remain the Same except for the following:

Once final indirect cost rate for recipient's fiscal year FY2008 (April 1, 2007 to March 31, 2008) has been approved by EPA, recipient shall amend grant to reflect changes in this rate.



Document Readers



Awards  
Working

## Commitment Notice

Title: ECHO at the Leahy Ctr for Lake Champlain

Document Status

Document Phase: Final  
Current Editor: Erik Beck

Last Modified: 12/01/2007  
Previous Editor: Ruben Neira

Commitment Notice Information

Program Code: LC - Lake Champlain Basin Program  
Grant Number: 97144701-3

Approved Ceiling: \$250,000

Commitment Amt: \$250,000

Commitment Type: Original Commitment

Agreement Type: Assistance Amendment

Applicant Name: LCBSC - Lake Champlain Basin Science Center

DUNS:

Employer EIN: 03-0347288

Awarding Region: EPA R1

Responsibility Ctr: Region 1

Allowance Holder: Region 1

Is Contract Negotiator Allowed to exceed amount shown above by up to 10% without securing further approval for:

Allowed to Exceed: No

Description Of Project, Goods, or Services:

Description: This commitment is to fund an assistance agreement (grant) to the ECHO Center for Lake Champlain (Lake Champlain Science Center). This will fund implementation of educational pieces of the Lake Champlain Basin Management Plan.

Task, Roap, or Other Local Identifier:

Identifier:

Special Comments and Instructions:

Comments:

Commitment Notice Document Attachments

Fiscal Information

## Document Readers

**Commitment Notice**

Title: ECHO at the Leahy Ctr for Lake Champlain

## Document Status

Document Phase: Final

Last Modified: 12/01/2007

Current Editor: Erik Beck

Previous Editor: Ruben Neira

## Commitment Notice Information

Program Code: LC - Lake Champlain Basin Program

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Commitment Type: Original Commitment

Agreement Type: Assistance Amendment

Applicant Name: LCBSC - Lake Champlain Basin Science Center

DUNS:

Employer EIN: 03-0347288

Awarding Region: EPA R1

Responsibility Ctr: Region 1

Allowance Holder: Region 1

Is Contract Negotiator Allowed to exceed amount shown above by up to 10% without securing further approval for:

Allowed to Exceed: No

Description Of Project, Goods, or Services:

Description: This commitment is to fund an assistance agreement (grant) to the ECHO Center for Lake Champlain (Lake Champlain Science Center). This will fund implementation of educational pieces of the Lake Champlain Basin Management Plan.

Task, Road, or Other Local Identifier:

Identifier:

Special Comments and Instructions:

Comments:

## Commitment Notice Document Attachments

## Fiscal Information

VendorCode: 030347288

Service Finance AP33

Office:

Accounting Period: 022008

IFMS Status: ACCEPTED

Line	Site Name	Req No	Fiscal Yr	Approp Code	BO Code	PRC	Object Class	Amount	Site Project	Cost Org Code
001	-	0801LZC006	0708	B	01L	403B66E	4183	167,284	-	-
002	-	0801LZC006	0708	B	0100ABU	403B66E	4183	82,716	-	-
								250,000		

## Review

Read Access: Controlled

Readers: Beth Edwards  
Paul Bryan  
Brian Tocci  
Erik Beck

Submitted: 11/23/2007

Approvers: Cathy Ivanoski

Submitted: 11/23/2007



<b>ECHO In-Kind Match</b>	<b>\$261,668</b>
<ul style="list-style-type: none"> <li>• includes personnel and indirect cost allocation</li> </ul>	
<b>TOTAL FEDERAL-75%</b>	<b>\$689,385</b>
<b>TOTAL ECHO MATCH-25%</b>	<b><u>\$261,668</u></b>
<b>TOTAL</b>	<b><u>\$951,053</u></b>

**ECHO at the Leahy Center for Lake Champlain**  
**FY 06 U.S. EPA Project Budget**  
**Budget Detail by Category**

	Total	Federal	Match
Personnel	\$428,868	\$266,341	\$162,527
Fringe Benefits	111,506	69,249	42,257
Travel	750	750	0
Supplies	37,000	37,000	0
Contractual	33,974	33,974	0
Other	188,853	188,853	0
Indirect	150,102	93,218	56,884
<b>TOTAL</b>	<b>\$951,053</b>	<b>\$689,385</b>	<b>\$261,668</b>